October 4, 2023

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

RE: **Release Investigation and Closure Report**
Fighting Okra 18 – 19 Federal #007H and Fighting Okra 18 – 19 Federal #002H
Unit C, Section 18, Township 26 South, Range 34 East
32.049789°, -103.5119685°
Lea County, New Mexico
Terracon Project No. KH237008 and KH237032
NMOCD No. nAPP2303730420 and nAPP2318663772

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed and executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations governing environmental response actions required for releases of crude oil and produced water. The investigative response actions were taken in response to a crude oil release from a flowline and a separate crude oil and produced water release from a separate flowline on February 3, 2023, and July 5, 2023, respectively. The below sections detail Terracon's assessment and remediation actions in response to the noted releases.

Action Items

Completed Actions

1) The release assessment activities were executed between February and July 2023.
2) Release assessment maps and laboratory data summary tables are attached within Appendices A, B, and D. A photographic log is included in Appendix C.
3) Vertical and horizontal delineation boundaries were achieved through the demonstration of constituents of concern at concentrations below applicable NMOCD Reclamation and Remediation Standards. Excavation confirmation sampling was executed to be representative of a 200-square-foot (sf) assessment area. Confirmation sampling concluded in August 2023.
4) Remediation efforts were executed between June and September 2023 and consisted of the excavation of materials identified to exhibit concentrations above NMOCD Reclamation and Remediation Standards (approximately 3,104 cubic yards (cy)). The exhumed materials were disposed of at Lea Land Landfill, a permitted disposal facility.
5) Upon completion of the removal and disposal of the impacted material, the excavation was backfilled with native material to the surrounding grade and reseeded.

Released to Imaging: 3/1/2024 11:35:47 AM

Devon Energy Production Company
Fighting Okra 18 – 19 Federal #007H and Fighting Okra 18 – 19 Federal #002H
32.049789°, -103.5119685°
NMOCD Reference # nAPP2303730420 and nAPP2318663772
Terracon Project # KH237008 and KH237032

Anticipated Actions

1) Approval by the NMOCD.

Terracon appreciates this opportunity to provide environmental services to Devon Energy Production Company (Devon). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

Travis Casey
Senior Staff Scientist
Carlsbad

Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

CC:
Dale Woodall, Environmental Professional
Devon Energy Corp
205 E Bender Road #105
Hobbs, New Mexico 88240

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Devon Energy Production Company
Fighting Okra 18 – 19 Federal #007H and Fighting Okra 18 – 19 Federal #002H
32.049789°, -103.5119685°
NMOCD Reference # nAPP2303730420 and nAPP2318663772
Terracon Project # KH237008 and KH237032

Section 1 – Incident Information

The following table provides detailed information regarding the February 03, 2023, crude oil release and July 05, 2023, crude oil release at the Fighting Okra 18 – 19 Federal #007H and Fighting Okra 18 – 19 Federal #002H (Fighting Okra) site in Lea County, New Mexico:

Required Information	Site and Release information	
Responsible party	The pipeline is operated by Devon Energy Production Company.	
Local contact	Contact: Mr. Dale Woodall	P: (575)-748-1838 E: dale.woodall@dvn.com
NMOCD Notifications	Notice of the #007H release was provided to the NMOCD web portal by Kendra Ruiz on February 15, 2023. NMOCD Reference ID: nAPP2303730420 Notice of the #002H release was provided to the NMOCD web portal by Kendra Ruiz on July 5, 2023. NMOCD Reference ID: nAPP2318663772	
Facility Description	Fighting Okra is in Lea County, New Mexico. It is an area located within Unit C, Section 18, Township 26 South, Range 34 East, approximately 19.37 miles southwest of Jal, New Mexico. The site is predominantly developed oil and gas production well pad, Bureau of Land Management (BLM) owned native pastureland.	
Date of incident	February 03, 2023, during routine maintenance. (#007H) July 05, 2023, during routine maintenance. (#002H)	
Discharge events	The initial crude oil release was caused due to a flowline developing a leak. The second crude oil and produced water release was caused due do a flowline developing a leak. The site is illustrated in Exhibits 1 and 2 of Appendix A.	
Type of discharges	The documented crude oil release and crude oil and produced water release occurred in oil and gas flowlines off-pad, BLM-owned, native pastureland areas. Soils at the site are affected at the surface and beyond the depth of the flowline (4 ft bgs).	

Devon Energy Production Company
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32.049789°, -103.5119685°
NMOCD Reference # nAPP2303730420 and nAPP2318663772
Terracon Project # KH237008 and KH237032

Quantity of spilled material	February 3, 2023 Total Fluids: 30.9 bbls of crude oil Total Fluids Recovered: 14 bbls of crude oil	July 5, 2023 Total Fluids: 79 bbls of crude oil & produced water Total Fluids Recovered: 65 bbls of crude oil & produced water
Immediate corrective actions	The leaking flowlines were closed in at the nearest isolation valve, blown down, and clamped. A backhoe was utilized to excavate impacted soils around the line to discover the source of the release.	

Section 2 – General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
Groundwater NMOSE POD Location Map – (Exhibit 5 in Appendix A)	POD Number: (C-04626-POD 1) Depth to Groundwater: >55 ft. bgs Distance to Well: 0.18 miles to the southeast Date Drilled: June 09, 2022
	Groundwater Quality: Groundwater quality at the site is predominately used for watering livestock.
Surface Water NM Wetland Map – (Exhibit 6 in Appendix A)	Pecos River is located approximately 22.65 miles to the southwest.
100-Year Flood Plain	This site is located outside the 100-year flood plain of the Pecos River.
Soil Characteristics	Soils at the site are mapped as Pyotes and Maljamar Complex Sand series soils, 2 to 5 percent slopes, well-drained soils formed in moderately sandy to sandy mixed sediments somewhat reworked by wind, very porous; neutral; gradual smooth boundary. (15 to 23 inches thick). Restrictive features were not encountered from surface to 96 inches bgs within the release
Soil Characteristics	

Devon Energy Production Company
Fighting Okra 18 – 19 Federal #007H and Fighting Okra 18 – 19 Federal #002H
32.049789°, -103.5119685°
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Terracon Project # KH237008 and KH237032

Physical Characteristic	Site Ranking Characteristics
Continued	margins. The full extent of release quantities and excavation activities did not extend greater than 11 ft. bgs.
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 in Appendix A)	Terracon evaluated data from the NMOCD Public UCP Site, Karst map designations in reference to the site location. The site appears to be within a low-level Karst risk area. Based on on-site observations within the extent of the release margins, the potential for Karst formations in this specific area are of low potential, as illustrated in Exhibit 6.

Section 3 – Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018,* and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Chaves 8".

Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, total petroleum hydrocarbons (TPH-GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within the New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation* (19.15.29.13) *New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Devon Energy Production Company
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Section 3.2 – Remediation Levels (> 4 ft. bgs)
Based on the site-specific characteristics, and the inferred depth to groundwater, the applicable NMOCD remediation levels for chloride, TPH, BTEX, and benzene within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Section 4 – Remediation Activities

On February 13, 2023, Terracon personnel mobilized to the site to conduct an initial release investigation and collected 16 soil samples to delineate the extent of the release, as illustrated in Exhibit 4. Following the receipt of laboratory results from the initial release investigation, Terracon generated a cut plan and associated data for Devon environmental staff to review and collect bids for the remediation aspect of the incident.

The remediation was awarded to Halo Services Inc. (Halo) on June 7, 2023. The next two weeks were utilized to plan and coordinate the remediation portion of the project.

Beginning on June 28, 2023, and continuing through August 18, 2023, Terracon personnel mobilized to the site to meet Halo personnel to perform soil remediation activities. Areas exhibiting visual impact were excavated to variable depths extending approximately 11 feet bgs.

Remediation at the Fighting Okra 18 – 19 #007H was initiated on June 28, 2023. Following the removal of approximately 1,200 cubic yards of soil, a secondary release was discovered from Fighting Okra 18 – 19 Fed Com #002 on July 5, 2023. This secondary release was approximately 100 ft west of the original release. The released fluids traveled east and pooled within the floor of the open excavation.

All remedial efforts from July 5, through July 14 were paused while all standing liquids were removed, and the pipeline was repaired.

Halo completed the removal of impacted material on August 18, 2023. Terracon mobilized

back to the site on August 22, 2023, and September 18, 2023, to collect additional confirmation samples .

In total approximately 3,104 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts ceased based on the results of composite soil sample laboratory analysis. Results are detailed in Sections 5 and 6. Excavated materials were disposed of at Lea Land Landfill.

Section 5 - Remediation Confirmation Assessment

A total of 105 confirmation composite soil samples were collected from the excavation from July 10, 2023, through September 18, 2023, as a result. Samples were placed in laboratory-provided sample containers, preserved with ice, and transported under a chain of custody to Eurofins Carlsbad, located in Carlsbad, New Mexico for analysis of chloride, BTEX, and TPH.

Section 6 – Analytical Results

During confirmation sampling efforts 105 composite samples were collected from the floor and walls of the excavation. A total of 58 samples were collected from the reclamation depth of soils from the surface to 4 ft. bgs, and 47 samples were collected from the remediation depth of soils greater than 4 ft. bgs.

Sixty of the 105 confirmation soil samples collected exhibited concentrations of TPH above the laboratory sample detection limits (SDLs). The magnitude of TPH concentrations were below the NMOCD RAL closure criteria of 2,500 milligrams per kilogram (mg/kg) and ranged from 50.2 mg/kg in soil sample E-5 FS (4 ft bgs), to 991 mg/kg in soil sample SS01 (4-7 ft bgs).

Analyzed soil samples confirmation exhibited concentrations of chloride above the laboratory SDLs. The detected chloride concentrations below the NMOCD RALs closure criteria of 10,000 mg/kg. The detected concentrations ranged from 36.9 mg/kg in soil sample E-6 FS (4 ft bgs) to 7,040 mg/kg in soil sample F4-7 (7 ft bgs).

A summary of chloride, BTEX, and TPH concentrations of analyzed soil samples is attached as Table 1.

Devon Energy Production Company
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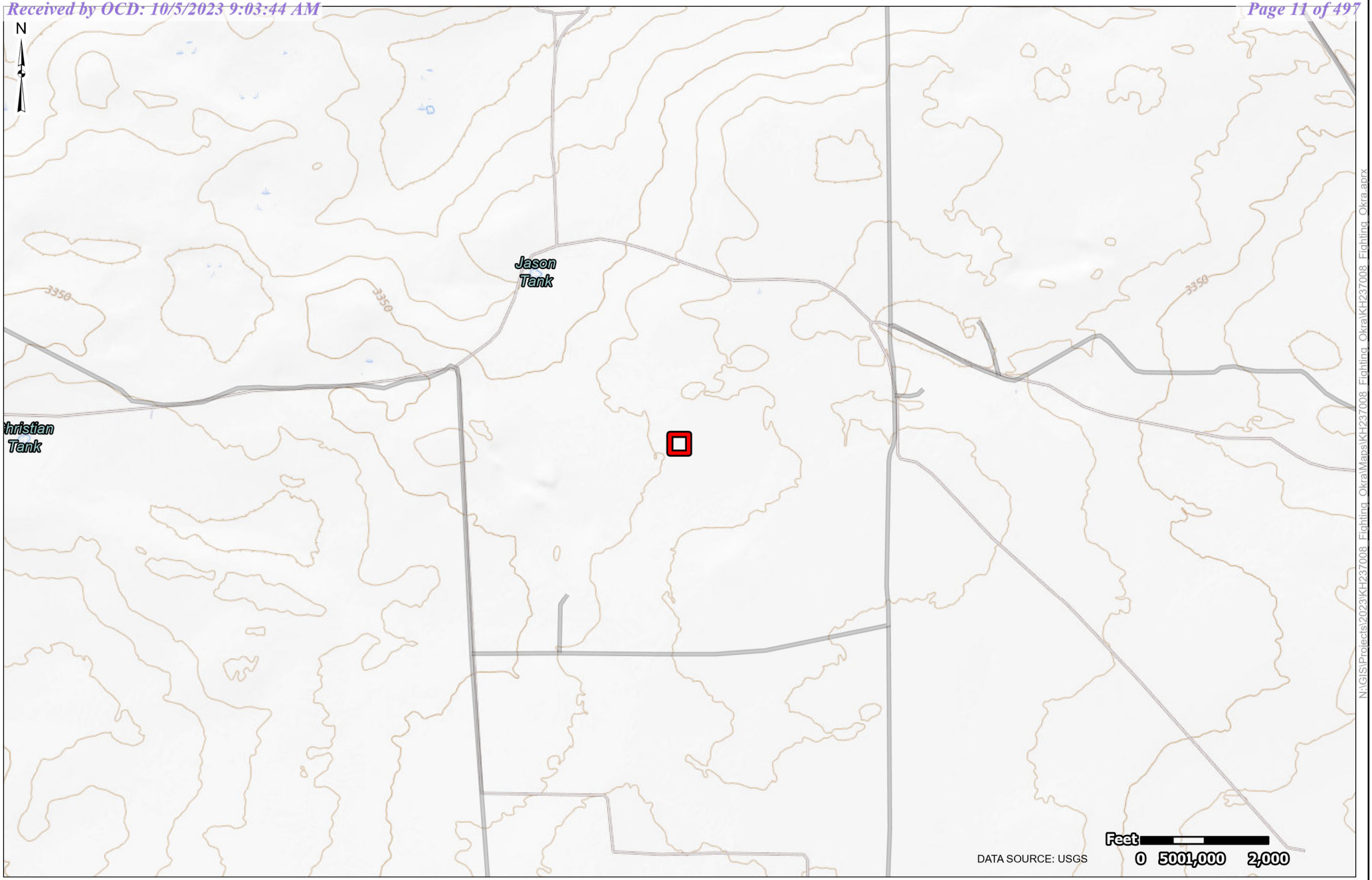
NMOCD Reference # nAPP2303730420 and nAPP2318663772
Terracon Project # KH237008 and KH237032

Section 7 – Conclusion and Closure Request

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon on behalf of Devon Energy respectfully requests closure of the incidents nAPP2303730420 and nAPP2318663772.

APPENDIX A – EXHIBITS



Site Boundary

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Topographic map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

1

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Site Boundary

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Site Location Map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

2

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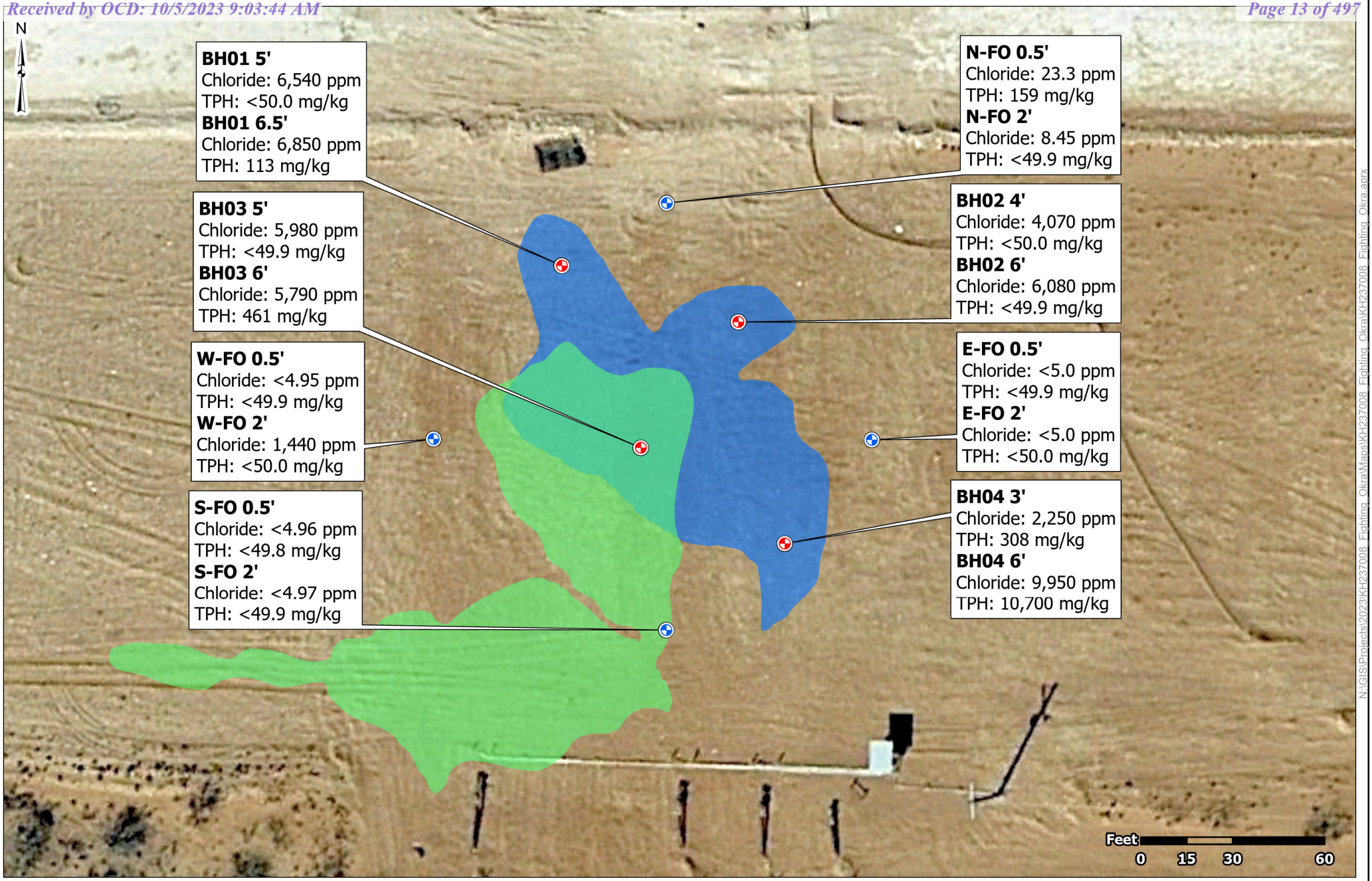

Sample Location

- Inside Leak Area
- Perimeter
- Primary Release
- Secondary Release

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Site Sample Map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

3

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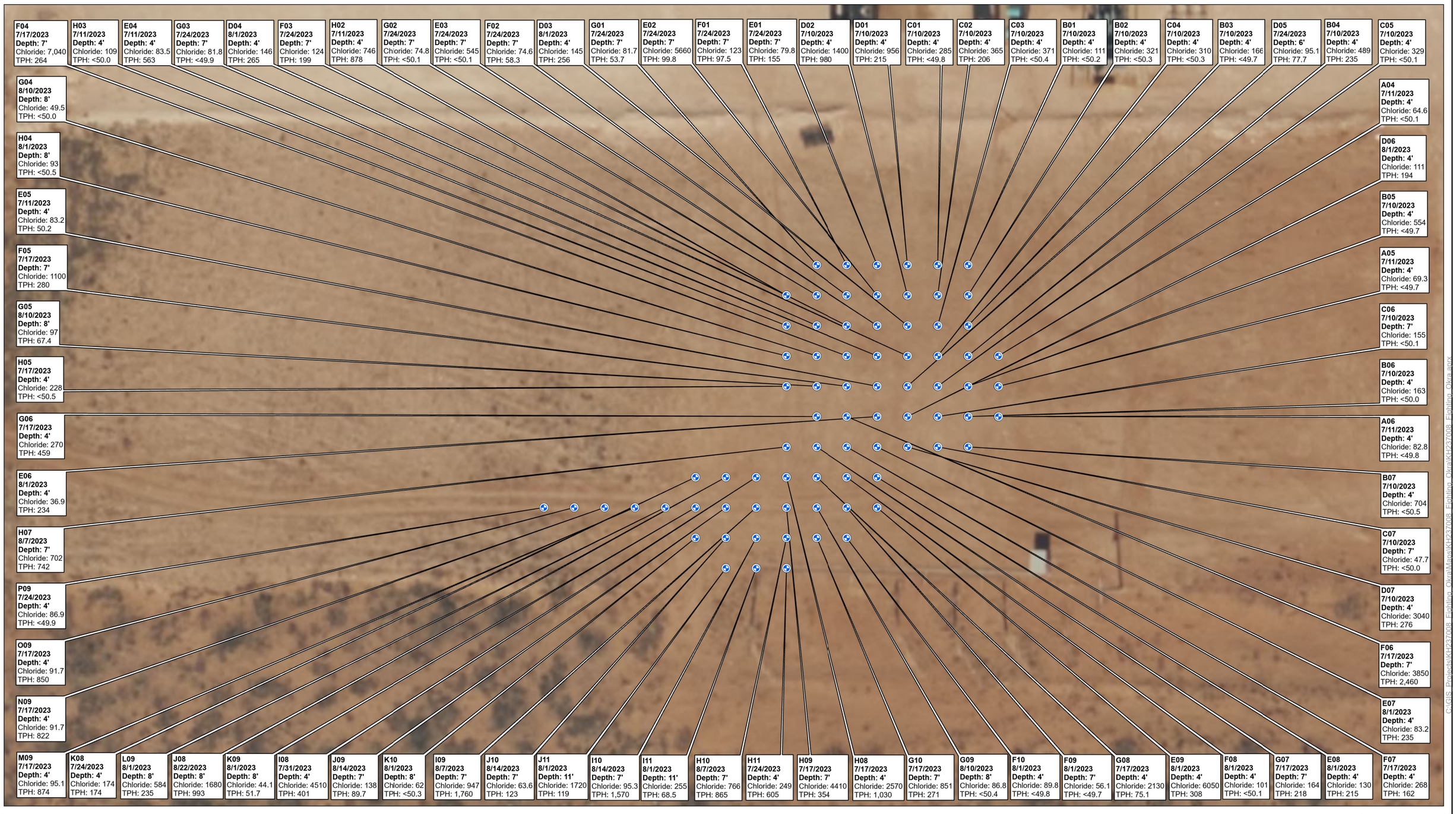

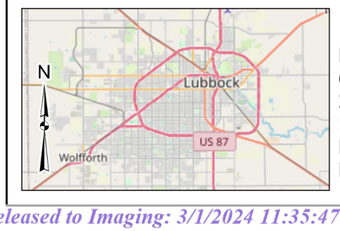

Floor Samples

NMOCD RAL =
600 mg/kg for chloride <=4'bgs
20,000 mg/kg for chloride >4' bgs
100 mg/kg for Total TPH
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards

Feet
0 20 40 80

DATA SOURCES: Bing

Project No.:	KH237008
Date:	October 05 2023
Drawn By:	JWL
Reviewed By:	JRG

Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Confirmation Floor Samples

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

4.1

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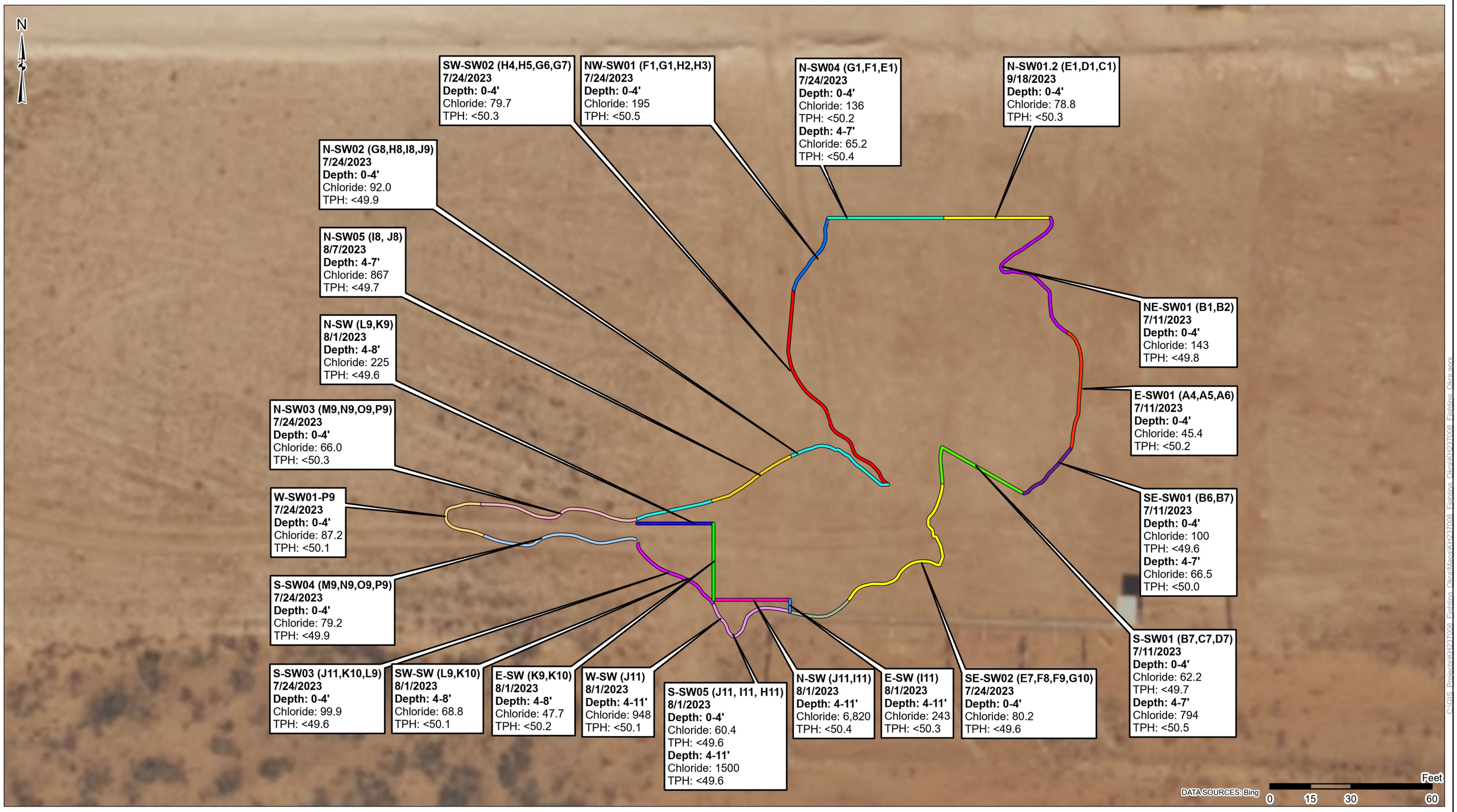

NMOCD RAL =
600 mg/kg for chloride <=4'bgs
20,000 mg/kg for chloride >4' bgs
100 mg/kg for Total TPH
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards

Project No.:	KH237008
Date:	October 05 2023
Drawn By:	JWL
Reviewed By:	JRG

Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Confirmation Sidewall Samples

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

4.2

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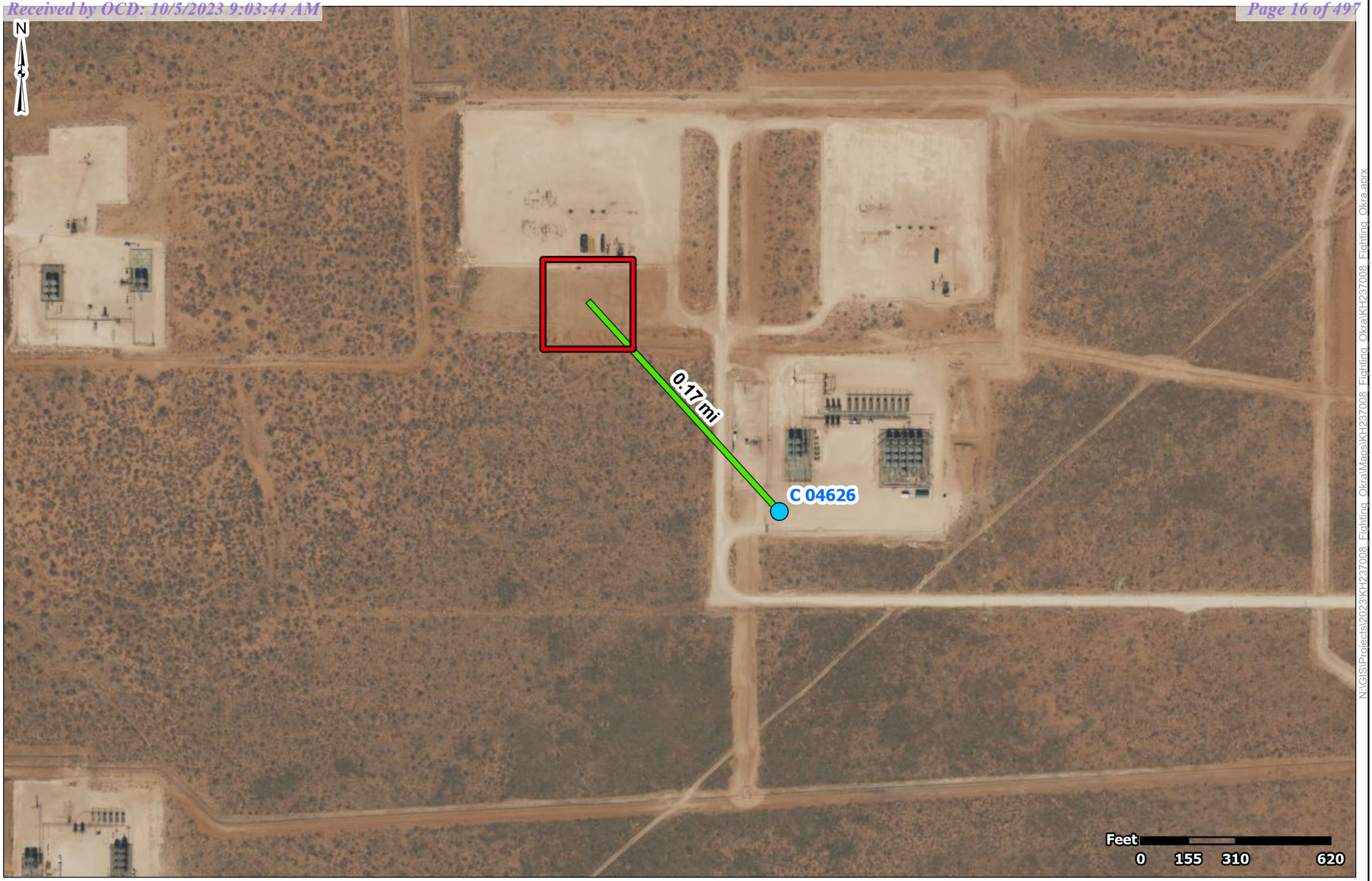

Site Boundary

NMOSE PODS Location

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

terracon

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

NMOSE POD Location Map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

5

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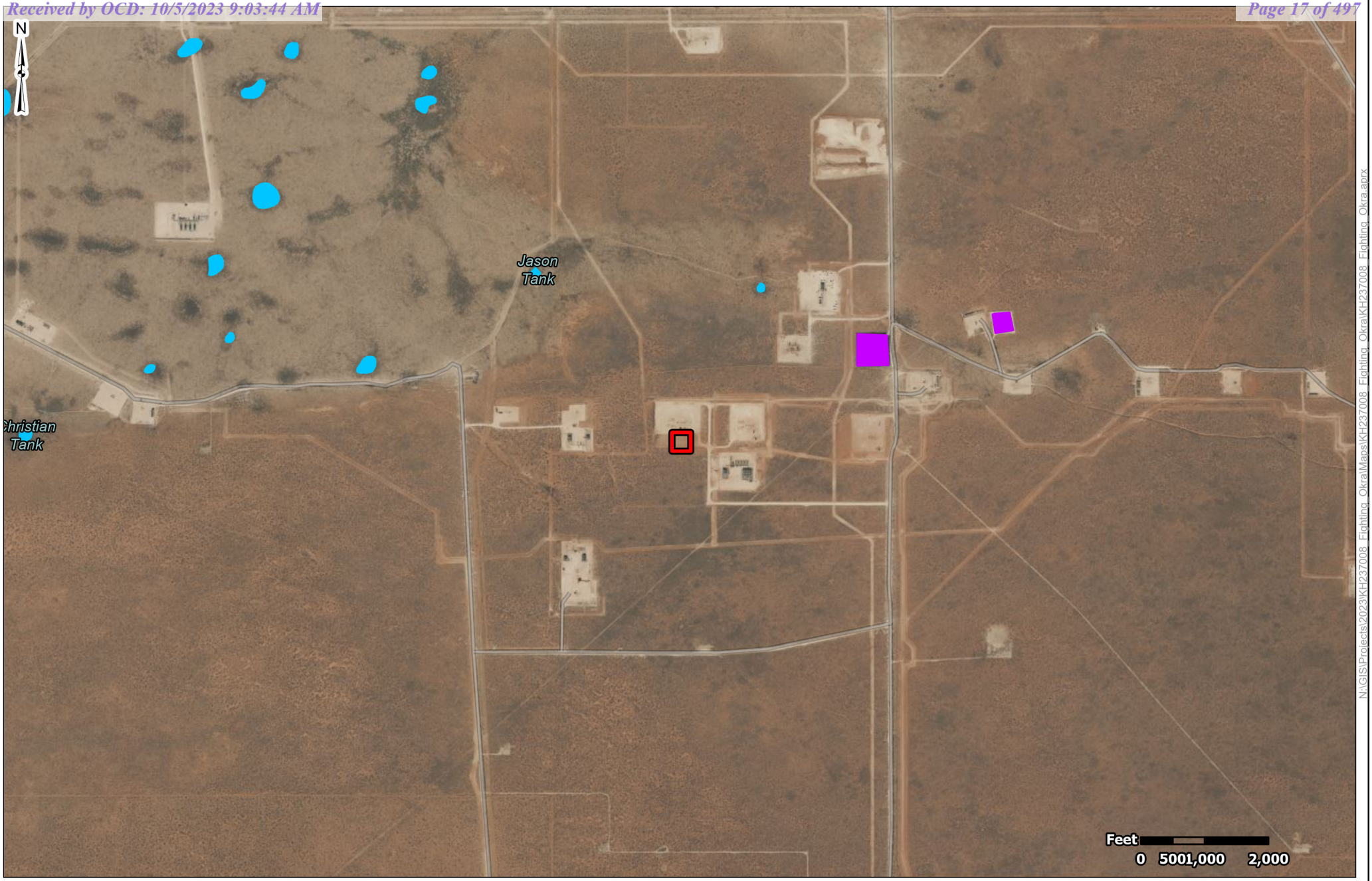

Site Boundary
Freshwater Emergent Wetland
Freshwater Pond

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Designated Wetlands Area Map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

6

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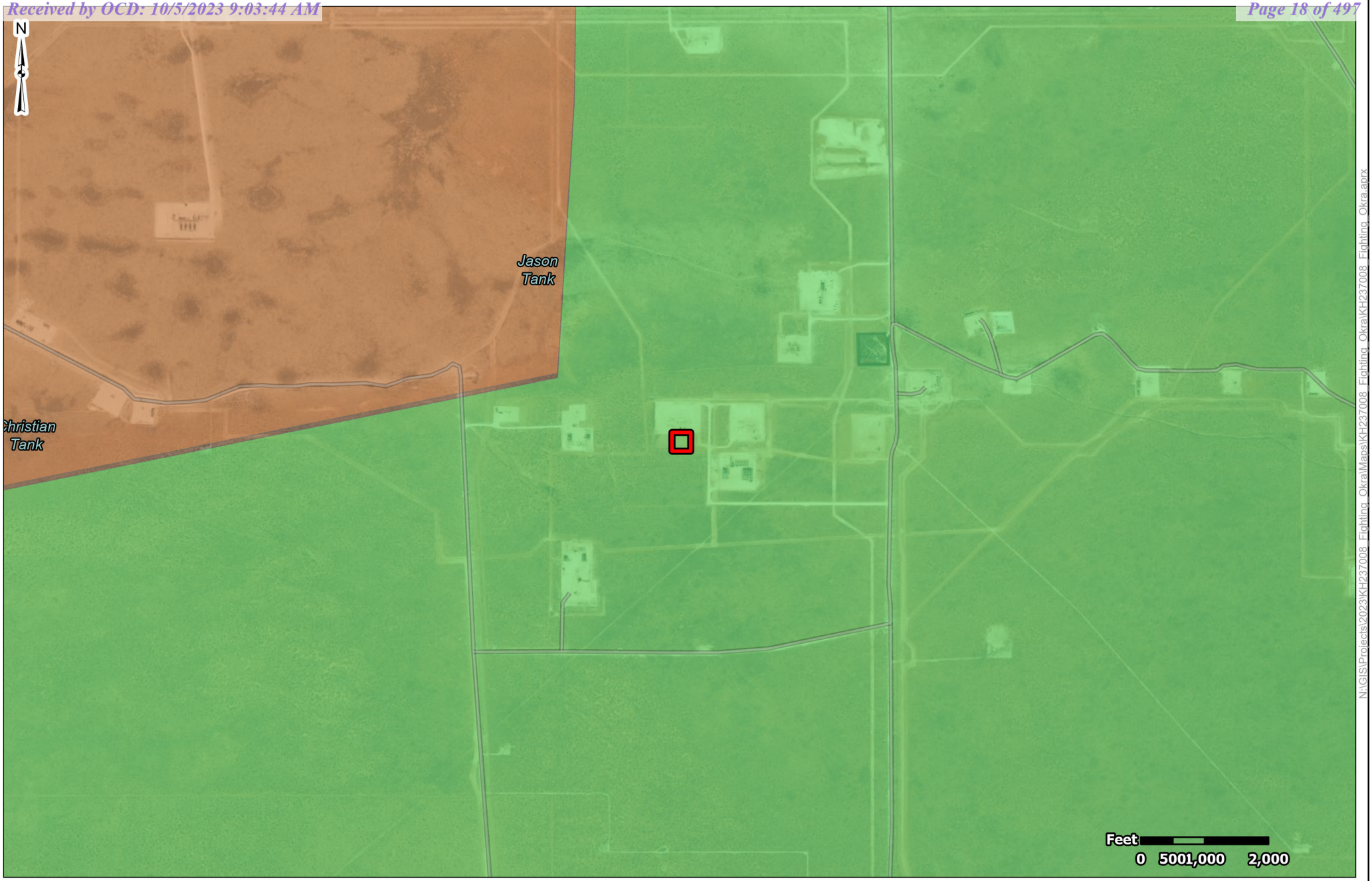

Site Boundary

Karst Potential

Low

Medium

High

Project No.:	KH237008
Date:	September 05 2023
Drawn By:	JWL
Reviewed By:	JRG

terracon

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Fighting Okra 18-19-7H
32.049789, -103.5119685
Lea County, New Mexico

Exhibit

7

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Re: [EXTERNAL] Fighting Okra (nAPP2303730420, nAPP2318663772) (SAMPLING NOTIFICATION)

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Fri 3/1/2024 7:29 AM

To:Guesnier, Joseph R <Joseph.Guesnier@terracon.com>
Cc:Woodall, Dale <Dale.Woodall@dvn.com>;Casey, Travis <Travis.Casey@terracon.com>

Good morning Joseph,

Thank you for your correspondence related to these incidents (Fighting Okra18 19 FEDERAL #007H & #002H). Terracon's response in addressing this matter is acceptable to OCD.

I'll include this email within the appropriate reports and address them by EOD.

If you have any questions or concerns, please contact me at your convenience.

Regards,

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

From: Guesnier, Joseph R <Joseph.Guesnier@terracon.com>
Sent: Thursday, February 29, 2024 9:52 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Woodall, Dale <Dale.Woodall@dvn.com>; Casey, Travis <Travis.Casey@terracon.com>
Subject: [EXTERNAL] Fighting Okra (nAPP2303730420, nAPP2318663772) (SAMPLING NOTIFICATION)

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

Mr. Velez,

Thank you for taking my call and listening to our dilemma as it relates to the sampling notification for the Fighting Okra remediation.

As we discussed when this project was in progress we had a former employee managing it and they should have provided the sampling notification to the NMOCD.
They left shortly after the conclusion of the project and did not save the email in our internal system.

Terracon as a company, generally clears out all email data related to former employees 1 month after their exit from the company and our IT department has been unable to recover their email to date.

I appreciate your help with closing this incident and if you need anything else from me please let me know.

Regards,

Joseph Guesnier, NORM RSO
Office Manager
Terracon
4518 W. Pierce St I Carlsbad, New Mexico
M (806) 544-9276 I O (806) 589-6525
jrguesnier@terracon.com I terracon.com

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access the hyperlink, please e-mail sender.

APPENDIX B – TABLES AND WELL DATA

Table 1 Release Assessment
Soil Analytical Results Summary - Release Assessment
Fighting Okra Spill
NMOCD Reference No. nAPP2303730420 and nAPP2318663772

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX[1] (mg/Kg)	Total TPH[2] (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
BH01	2/13/2023	5	Discrete	Excavated	**6,540**	<0.00202	**0.00876**	<50.0	<50.0	<50.0	<50.0
	2/13/2023	6.5	Discrete	Excavated	**6,850**	**0.00829**	**0.206**	**113**	**113**	<49.9	<49.9
BH02	2/13/2023	4	Discrete	Excavated	**4,070**	<0.00199	**0.0185**	<50.0	<50.0	<50.0	<50.0
	2/13/2023	6	Discrete	Excavated	**6,080**	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9
BH03	2/13/2023	5	Discrete	Excavated	**5,980**	**0.00288**	**0.0189**	<49.9	<49.9	<49.9	<49.9
	2/13/2023	6	Discrete	Excavated	**5,790**	**0.0899**	**2.71**	**461**	**325**	**136**	<49.9
BH04	2/13/2023	3	Discrete	Excavated	**2,250**	**0.00205**	**0.192**	**308**	**223**	**84.5**	<50.0
	2/13/2023	6	Discrete	Excavated	**9,950**	**0.255**	**0.525**	**10,700**	**3,990**	**6,690**	<49.9
NMOCD Reclamation Standards[3] (Surface to 4 ft bgs)					600	10	50	100	N/A		
NMOCD Remediation Standards[4] (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).
NA = Not Analyzed
Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.
In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permited disposal facility.

Table 2 Background Samples
Soil Analytical Results Summary - Release Assessment
Fighting Okra Spill
NMOCD Reference No. nAPP2303730420 and nAPP2318663772

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX[1] (mg/Kg)	Total TPH[2] (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
N-FO	2/13/2023	0.5	Discrete	Excavated	**23.3**	<0.00199	<0.00398	**159**	<49.8	**159**	<49.8
	2/13/2023	2	Discrete	In-Situ	**8.45**	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9
E-FO	2/13/2023	0.5	Discrete	In-Situ	<5.00	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
	2/13/2023	2	Discrete	In-Situ	<4.99	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
S-FO	2/13/2023	0.5	Discrete	In-Situ	<4.96	<0.00198	**0.00704**	<49.8	<49.8	<49.8	<49.8
	2/13/2023	2	Discrete	In-Situ	<4.97	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
W-FO	2/13/2023	0.5	Discrete	Excavated	<4.95	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
	2/13/2023	2	Discrete	Excavated	**1,440**	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
NMOCD Reclamation Standards[3] (Surface to 4 ft bgs)					600	10	50	?	100		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).
NA = Not Analyzed
Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.
In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permited disposal facility.

Table 3 Wall Samples
Soil Analytical Results Summary - Release Assessment
Fighting Okra Spill
NMOCD Reference No. nAPP2303730420 and nAPP2318663772

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX[1] (mg/Kg)	Total TPH[2] (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
ESW01 (A4,A5,A6)	7/11/2023	0 - 4	Composite	In-Situ	**45.4**	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2
NESW01 (B1,B2)	7/11/2023	0 - 4	Composite	In-Situ	**143**	<0.00202	**0.0449**	<49.8	<49.8	<49.8	<49.8
NSW01 (E1,D1,C1)	7/11/2023	0 - 4	Composite	Excavated	**175**	<0.00199	<0.00398	**453**	**453**	<50.1	<50.1
S SW01 (B7,C7,D7)	7/11/2023	0 - 4	Composite	In-Situ	**62.2**	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7
SESW01 (B6,B7)	7/11/2023	0 - 4	Composite	In-Situ	**100**	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6
SESW01 (B7,B6)	7/11/2023	4 - 7	Composite	In-Situ	**66.5**	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0
SSW01C (B7,C7,D7)	7/11/2023	4 - 7	Composite	In-Situ	**794**	<0.00200	**0.00613**	**991**	**991**	<50.5	<50.5
SW SW01 (H3,G4,F4,E5)	7/11/2023	0 - 4	Composite	In-Situ	**47.2**	<0.00200	**0.0211**	<50.5	<50.5	<50.5	<50.5
NSW02 (G8,H8,I8,J9)	07/24/2023	0 - 4	Composite	In-Situ	**92.0**	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9
NSW03 (M9,N9,O9,P9)	07/24/2023	0 - 4	Composite	In-Situ	**66.0**	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3
NSW04 (G1,F1,E1)	07/24/2023	0 - 4	Composite	In-Situ	**136**	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2
NSW04 (G1,F1,E1)	07/24/2023	4 - 7	Composite	In-Situ	**65.2**	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4
NWSW01 (F1,G1,H2,H3)	07/24/2023	0 -4	Composite	In-Situ	**195**	<0.00198	<0.00397	<50.5	<50.5	<50.5	<50.5
SESW02 (E7,F8,F9,G10)	07/24/2023	0 -4	Composite	In-Situ	**80.2**	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6
SSW03 (J11,K10,L9)	07/24/2023	0 -4	Composite	In-Situ	**99.9**	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6
SSW04 (M9,N9,O9,P9)	07/24/2023	0 - 4	Composite	In-Situ	**79.2**	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9
SW SW02 (H4,H5,G6,G7	07/24/2023	0 - 4	Composite	In-Situ	**79.7**	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3
WSW01 (P9)	07/24/2023	0 - 4	Composite	In-Situ	**87.2**	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1
NSW05 (K9,L9)	07/31/2023	4 - 7	Composite	In-Situ	**2,770**	<0.00198	<0.00397	**460**	**460**	<50.0	<50.0
NSW (J11,I11)	08/01/2023	4 - 11	Composite	In-Situ	**6,820**	<0.00198	<0.00396	**381**	**381**	<50.4	<50.4
NSW (L9,K9)	08/01/2023	4 - 8	Composite	In-Situ	**225**	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6
SSW 05 (J11,I11,H11)	08/01/2023	0 - 4	Composite	In-Situ	**60.4**	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6
SSW05 (J11,I11)	08/01/2023	4 - 11	Composite	In-Situ	**1,500**	<0.00200	<0.00399	**200**	**200**	<49.6	<49.6
SWSW (L9,K10)	08/01/2023	4 - 8	Composite	In-Situ	**68.8**	<0.00198	<0.00396	**75.8**	**75.8**	<50.1	<50.1
WSW (J11)	08/01/2023	4 - 11	Composite	In-Situ	**948**	<0.00200	<0.00401	**189**	**189**	<50.1	<50.1
ESW (I11)	08/01/2023	4 - 11	Composite	In-Situ	**243**	<0.00201	<0.00402	**155**	**155**	<50.3	<50.3
ESW (K9,K10)	08/01/2023	4 - 8	Composite	In-Situ	**47.7**	<0.00199	<0.00398	**87.0**	**87.0**	<50.2	<50.2
NSW 05 (I8,J8)	08/07/2023	4 - 7	Composite	In-Situ	**867**	<0.00198	<0.00397	**929**	**872**	<49.7	**57.4**
NSW01.2 [C,D1,E1]	09/18/2023	0 - 4	Composite	In-Situ	**78.8**	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3
NMOCD Reclamation Standards[3] (Surface to 4 ft bgs)					600	10	50	100	NA		
NMOCD Remediation Standards[4] (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	100		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

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NA = Not Analyzed
Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.
In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permited disposal facility.

Table 4 Floor Samples
Soil Analytical Results Summary - Release Assessment
Fighting Okra Spill
NMOCD Reference No. nAPP2303730420 and nAPP2318663772

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX[1] (mg/Kg)	Total TPH[2] (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
B-1 FS	7/10/2023	4	Composite	In-Situ	**111**	<0.00200	<0.00400	<50.2	<50.2	<50.2	<50.2
B-2 FS	7/10/2023	4	Composite	In-Situ	**321**	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3
B-3 FS	7/10/2023	4	Composite	In-Situ	**166**	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7
B-4 FS	7/10/2023	4	Composite	In-Situ	**489**	<0.00201	<0.00402	**235**	**235**	<49.5	<49.5
B-5 FS	7/10/2023	4	Composite	In-Situ	**554**	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7
B-6 FS	7/10/2023	7	Composite	In-Situ	**163**	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
B-7 FS	7/10/2023	7	Composite	In-Situ	**704**	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5
C-1 FS	7/10/2023	4	Composite	In-Situ	**285**	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8
C-2 FS	7/10/2023	4	Composite	In-Situ	**365**	<0.00202	<0.00404	**206**	**206**	<49.6	<49.6
C-3 FS	7/10/2023	4	Composite	In-Situ	**371**	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4
C-4 FS	7/10/2023	4	Composite	In-Situ	**310**	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3
C-5 FS	7/10/2023	4	Composite	In-Situ	**329**	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1
C-6 FS	7/10/2023	7	Composite	In-Situ	**155**	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1
C-7 FS	7/10/2023	7	Composite	In-Situ	**47.7**	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
D-1 FS	7/10/2023	4	Composite	In-Situ	**956**	<0.00200	<0.00399	**215**	**215**	<49.8	<49.8
D-2 FS	7/10/2023	4	Composite	In-Situ	**1,400**	<0.00200	<0.00401	**980**	**980**	<50.5	<50.5
D-3 FS	7/10/2023	4	Composite	Excavated	**1,800**	<0.00201	<0.00402	**2,480**	**2,480**	<50.3	<50.3
D-4 FS	7/10/2023	4	Composite	Excavated	**2,030**	<0.00199	<0.00398	**1,630**	**1,630**	<50.5	<50.5
D-5 FS	7/10/2023	4	Composite	Excavated	**2,750**	<0.00200	<0.00399	**1,390**	**1,390**	<50.4	<50.4
D-6 FS	7/10/2023	4	Composite	Excavated	**1,350**	<0.00201	<0.00402	**1,980**	**1,980**	<49.7	<49.7
D-7 FS	7/10/2023	4	Composite	In-Situ	**3,040**	<0.00202	**0.0144**	**276**	**276**	<50.2	<50.2
A-4 Fs	7/11/2023	4	Composite	In-Situ	**64.6**	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1
A-5 FS	7/11/2023	4	Composite	In-Situ	**69.3**	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7
A-6 FS	7/11/2023	4	Composite	In-Situ	**82.8**	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8
E-1 FS	7/11/2023	4	Composite	Excavated	**3,340**	<0.00200	**1.26**	**30,300.0**	**29,500.0**	**776**	<499
E-2 FS	7/11/2023	4	Composite	Excavated	**2,540**	<0.00198	**2.36**	**12,400.0**	**12,000.0**	**422**	<249
E-3 FS	7/11/2023	4	Composite	Excavated	**2,510**	<0.00202	**0.962**	**21,300.0**	**20,500.0**	**839**	<252
E-4 FS	7/11/2023	4	Composite	In-Situ	**83.5**	<0.00199	<0.00398	**563**	**563.0**	<50.1	<50.1
E-5 FS	7/11/2023	4	Composite	In-Situ	**83.2**	<0.00201	**0.0144**	**50.2**	**50.2**	<49.6	<49.6
F-1 FS	7/11/2023	4	Composite	Excavated	**3,780**	<0.00199	**0.00924**	**3,160**	**3,160**	<50.2	<50.2
F-2 FS	7/11/2023	4	Composite	Excavated	**3,620**	<0.00198	**4.31**	**32,900**	**31,800**	**1,110**	<505
F-4 FS	7/11/2023	4	Composite	Excavated	**667**	<0.00202	<0.00403	**1,850**	**1,850**	<49.9	<49.9
F-3 FS	7/11/2023	4	Composite	Excavated	**3,330**	<0.00199	**0.478**	**29,500**	**28,800**	**728**	<498
G-1 FS	7/11/2023	4	Composite	Excavated	**2,450**	<0.00201	**1.05**	**16,900**	**16,300**	**646**	<250
G-2 FS	7/11/2023	4	Composite	Excavated	**6,630**	<0.00200	**3.54**	**36,600**	**35,400**	**1,170**	<498
G-3 FS	7/11/2023	4	Composite	Excavated	**3,250**	<0.00200	**0.430**	**32,800**	**31,900**	**872**	<502
G-4 FS	7/11/2023	4	Composite	Excavated	**3,250**	0.00294	**5.76**	**36,300**	**34,700**	**1,590**	<499
H-2 FS	7/11/2023	4	Composite	In-Situ	**746**	<0.00202	<0.00403	**878**	**878**	<49.7	<49.7
H-3 FS	7/11/2023	4	Composite	In-Situ	**109**	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0
F-4 FS	7/17/2023	7	Composite	In-Situ	**7,040**	<0.00200	**0.00528**	**264**	**264**	<50.0	<50.0
E-6 FS	7/17/2023	7	Composite	Excavated	**4,550**	<0.00200	**0.0606**	**2,460**	**2,410**	**51.3**	<49.6
F-5 FS	7/17/2023	7	Composite	In-Situ	**1,100**	<0.00198	<0.00396	**280**	**280**	<49.9	<49.9
F-6 FS	7/17/2023	7	Composite	In-Situ	**3,850**	<0.00198	<0.00397	**654**	**654**	<49.8	<49.8
F-7 FS	7/17/2023	4	Composite	In-Situ	**268**	<0.00201	**0.00404**	**162**	**162**	<49.9	<49.9
G-4 FS	7/17/2023	4	Composite	Excavated	**3,280**	<0.00199	<0.00398	**4,440**	**4,160**	**105**	<49.8
G-5 FS	7/17/2023	7	Composite	Excavated	**4,320**	<0.00198	**0.225**	**4,960**	**4360**	**464**	**135**
G-6 FS	7/17/2023	4	Composite	In-Situ	**270**	<0.00200	**0.0457**	**459**	**406**	**53.0**	<49.7
G-7 FS	7/17/2023	4	Composite	In-Situ	**164**	<0.00198	**0.00854**	**218**	**150**	**68.2**	<49.9
G-8 FS	7/17/2023	4	Composite	In-Situ	**2,130**	<0.00201	<0.00402	**75.1**	**75.1**	<50.0	<50.0
G-9 FS	7/17/2023	7	Composite	Excavated	**3,190**	<0.00202	<0.00403	**3,840**	**3,550**	**72.8**	**217**
G-10 FS	7/17/2023	7	Composite	In-Situ	**851**	<0.00199	<0.00398	**271**	**271**	<49.8	<49.8
H-4 FS	7/17/2023	7	Composite	Excavated	**3,590**	<0.00199	<0.00398	**4,950**	**4,820**	<50.3	**129**
H-5 FS	7/17/2023	4	Composite	In-Situ	**228**	<0.00200	**0.0662**	**319**	**319**	<50.5	<50.5
H-8 FS	7/17/2023	4	Composite	In-Situ	**2,570**	<0.00199	**0.0284**	**1,030**	**855**	**105**	**68.6**
H-9 FS	7/17/2023	7	Composite	In-Situ	**4,410**	<0.00201	**0.00739**	**354**	**354**	<50.1	<50.1
H-10 FS	7/17/2023	7	Composite	Excavated	**3,940**	<0.00202	<0.00403	**4,450**	**4,170**	**116**	**166**
I-8 FS	7/17/2023	4	Composite	Excavated	**6,790**	<0.00198	**0.0937**	**7,460**	**7,370**	94.2	<50.2
I-9 FS	7/17/2023	4	Composite	Excavated	**10,800**	<0.00199	**0.00509**	**1,760**	**1,760**	<50.4	<50.4
I-10 FS	7/17/2023	4	Composite	Excavated	**1,090**	<0.00202	**0.219**	**9,950**	**9,370**	**277**	**299**
I-11 FS	7/17/2023	4	Composite	Excavated	**1,150**	<0.00202	**0.00447**	**4,750**	**4,460**	**114**	**171**
J-9 FS	7/17/2023	4	Composite	Excavated	**1,080**	<0.00202	**0.0324**	**1,730**	**1,730**	<50.0	<50.0
J-10 FS	7/17/2023	4	Composite	Excavated	**1,090**	<0.00202	**0.0287**	**1,560**	**1,560**	<49.9	<49.9
J-11 FS	7/17/2023	4	Composite	Excavated	**2,070**	<0.00200	**0.0387**	**2,210**	**2,210**	<49.7	<49.7
K-9 FS	7/17/2023	4	Composite	Excavated	**6,110**	<0.00200	**2.96**	**9,990**	**9,640**	**354**	<50.4
K-10 FS	7/17/2023	4	Composite	Excavated	**684**	<0.00201	**0.235**	**3,370**	**3,270**	**102**	<50.4
L-9 FS	7/17/2023	4	Composite	Excavated	**1,150**	<0.00199	**0.719**	**4,670**	**4,440**	**226**	<50.4
M-9 FS	7/17/2023	4	Composite	In-Situ	**95.1**	<0.00202	**0.104**	**874**	**874**	<50.1	<50.1
N-9 FS	7/17/2023	4	Composite	In-Situ	**91.7**	<0.00201	**0.0116**	**822**	**822**	<49.7	<49.7
O-9 FS	7/17/2023	4	Composite	In-Situ	**91.7**	<0.00198	**0.00728**	**850**	**850**	<49.9	<49.9
D-5 FS	7/24/2023	6	Composite	In-Situ	**95.1**	<0.00199	<0.00398	**77.7**	**77.7**	<50.2	<50.2
E-1 FS	7/24/2023	7	Composite	In-Situ	**79.8**	<0.00200	<0.00399	**155**	**155**	<50.0	<50.0
E-2 FS	7/24/2023	7	Composite	In-Situ	**5,660**	<0.00200	<0.00401	**99.8**	**99.8**	<49.9	<49.9
E-3 FS	7/24/2023	7	Composite	In-Situ	**545**	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1
F-1 FS	7/24/2023	7	Composite	In-Situ	**123**	<0.00200	<0.00399	**97.5**	**97.5**	<50.0	<50.0
F-2 FS	7/24/2023	7	Composite	In-Situ	**74.6**	<0.00201	<0.00402	**58.3**	**58.3**	<50.3	<50.3
F-3 FS	7/24/2023	7	Composite	In-Situ	**124**	<0.00202	<0.00403	**199**	**199**	<50.2	<50.2

G-1 FS	7/24/2023	7	Composite	In-Situ	**81.7**	<0.00199	<0.00398	**53.7**	53.7	<49.9	<49.9
G-2 FS	7/24/2023	7	Composite	In-Situ	**74.8**	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1
G-3 FS	7/24/2023	7	Composite	In-Situ	**81.8**	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9
H-11 FS	7/24/2023	4	Composite	In-Situ	**249**	<0.00200	<0.00401	**605**	**605**	<50.1	<50.1
K-8 FS	7/24/2023	4	Composite	Excavated	**174**	<0.00202	<0.00403	**174**	**174**	<49.7	<49.7
P-9 FS	7/24/2023	4	Composite	In-Situ	**86.9**	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9
H10 FS	07/31/2023	7	Composite	Excavated	**20,600**	<0.00201	<0.00402	**164**	**164**	<49.9	<49.9
H7 FS	07/31/2023	4	Composite	Excavated	**102**	<0.00198	**0.0146**	**1,640**	**1,640**	<49.9	<49.9
I10 FS	07/31/2023	4	Composite	Excavated	**4,000**	<0.00199	**0.111**	**2,580**	**2,580**	<49.8	<49.8
I8 FS	07/31/2023	4	Composite	In-Situ	**4,510**	<0.00200	**0.0137**	**401**	**401**	<50.0	<50.0
I9 FS	07/31/2023	4	Composite	Excavated	**3,550**	<0.00199	**0.0176**	**1,600**	**1,600**	<49.9	<49.9
J10 FS	07/31/2023	4	Composite	Excavated	**3,300**	<0.00199	**0.0126**	**2,190**	**2,190**	<49.8	<49.8
J8 FS	07/31/2023	4	Composite	Excavated	**1,840**	<0.00200	**0.233**	**1,780**	**1,780**	<49.9	<49.9
J9 FS	07/31/2023	4	Composite	Excavated	**4,440**	0.00294	**1.03**	**2,890**	**2,690**	**203**	<49.9
K9 FS	07/31/2023	4	Composite	Excavated	**580**	<0.0498	**1.06**	**1,170**	**1,170**	<50.0	<50.0
D-3 FS	8/1/2023	4	Composite	In-Situ	**145**	<0.00200	**0.0186**	**256**	**256**	<50.3	**256**
D-4 FS	8/1/2023	4	Composite	In-Situ	**146**	<0.00202	**0.0187**	**265**	**265**	<49.6	**265**
D-6 FS	8/1/2023	4	Composite	In-Situ	**111**	<0.00202	**0.00894**	**194**	**194**	<49.9	**194**
E-6 FS	8/1/2023	4	Composite	In-Situ	**36.9**	<0.00200	**0.0187**	**234**	**234**	<49.6	**234**
E-7 FS	8/1/2023	4	Composite	In-Situ	**83.2**	<0.00199	**0.0163**	**235**	**235**	<50.5	**235**
E-8 FS	8/1/2023	4	Composite	In-Situ	**130**	<0.00198	**0.0189**	**215**	**215**	<50.4	**215**
E-9 FS	8/1/2023	4	Composite	In-Situ	**6,050**	<0.00201	<0.00402	**308**	**308**	<50.2	**308**
F-8 FS	8/1/2023	4	Composite	In-Situ	**101**	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1
F-9 FS	8/1/2023	7	Composite	In-Situ	**56.1**	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7
F10 FS	8/1/2023	4	Composite	In-Situ	**89.8**	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8
H-4 FS	8/1/2023	8	Composite	In-Situ	**93.0**	<0.00202	<0.00404	<50.5	<50.5	<50.5	<50.5
I-11 FS	8/1/2023	11	Composite	In-Situ	**225**	<0.00198	<0.00397	**68.5**	**68.5**	<50.3	**68.5**
J-11 FS	8/1/2023	11	Composite	In-Situ	**1,720**	<0.00201	<0.00402	**119**	**119**	<50.2	**119**
K-9 FS	8/1/2023	8	Composite	In-Situ	**44.1**	<0.00202	<0.00403	**51.7**	**51.7**	<50.0	**119**
K-10 FS	8/1/2023	8	Composite	In-Situ	**62.0**	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3
L-9 FS	8/1/2023	8	Composite	In-Situ	**584**	<0.00201	**0.00517**	**235**	**235**	<50.0	**235**
H10 FS	08/07/2023	7	Composite	In-Situ	**766**	<0.00199	<0.00398	**865**	<49.6	**57.8**	**923**
H7 FS	08/07/2023	7	Composite	In-Situ	**702**	<0.00200	<0.00399	**742**	<50.2	**51.6**	**794**
I10 FS	08/07/2023	7	Composite	In-Situ	**1,100**	<0.00201	<0.00402	**1,570**	<50.4	**84.4**	**1,650**
I9 FS	08/07/2023	7	Composite	In-Situ	**947**	<0.00201	<0.00402	**895**	<50.5	**53.2**	**948**
J10 FS	08/07/2023	7	Composite	Excavated	**1,450**	<0.00201	<0.00402	**1,220**	<50.3	**64.7**	**1,280**
J8 FS	08/07/2023	7	Composite	Excavated	**1,430**	<0.00202	<0.00403	**1,110**	<49.6	**52.0**	**1,160**
J9 FS	08/07/2023	7	Composite	Excavated	**1,560**	<0.00200	<0.00401	**1,390**	<49.6	**68.9**	**1,460**
G4 FS	08/10/2023	8	Composite	In-Situ	**49.5**	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0
G5 FS	08/10/2023	8	Composite	In-Situ	**97.0**	<0.00202	<0.00404	**67.4**	**67.4**	<49.6	<49.6
G9 FS	08/10/2023	8	Composite	In-Situ	**86.8**	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4
I10 FS	08/14/2023	7	Composite	In-Situ	**95.3**	<0.00202	<0.00404	**165**	**165**	<49.7	<49.7
J10	08/14/2023	7	Composite	In-Situ	**63.6**	<0.00201	<0.00402	**123**	**123**	<50.5	<50.5
J8	08/14/2023	7	Composite	Excavated	**15,900**	<0.00199	<0.00398	**125**	**125**	<49.9	<49.9
J9	08/14/2023	7	Composite	In-Situ	**138**	<0.00202	<0.00403	**89.7**	**89.7**	<50.5	<50.5
J8 FS	8/22/2023	8	Composite	In-Situ	**1,680**	<0.00199	<0.00398	**993**	**993**	<49.9	<49.9
NMOCD Remediation Standards[4] (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	1,000		NA

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.
In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permited disposal facility.

APPENDIX C – PHOTOGRAPHIC LOG

PHOTO 1: North facing view of Excavation area 1.

PHOTO 2: Southwest facing view of Excavation area 1.

PHOTO 3: North facing view of Excavation area 2.

PHOTO 4: Southeast facing view of Excavation area 2.

PHOTO 5: Southwest facing view of the excavation area.

PHOTO 6: West facing view of the excavation area.

PHOTO 7: Northwest facing view of the excavation area.

PHOTO 8: Northeast facing view of the excavation area

PHOTO 9: East facing view of the excavation area.

PHOTO 10: Southeast facing view of the excavation area.

PHOTO 11: Northwest facing view of the excavation area.

PHOTO 12: West facing view of the excavation area.

PHOTO 13: West facing view of the excavation area.

PHOTO 14: South facing view of the excavation area.

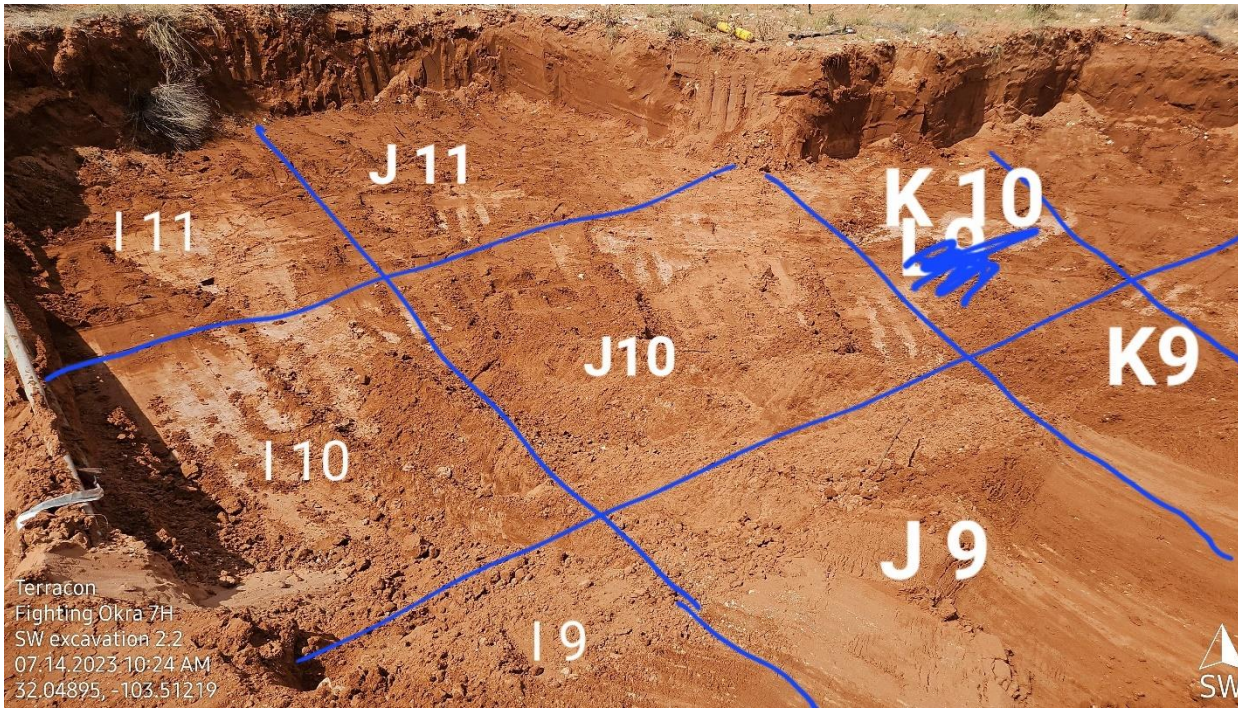


PHOTO 15: Southwest facing view of the excavation area, showing sampling locations.

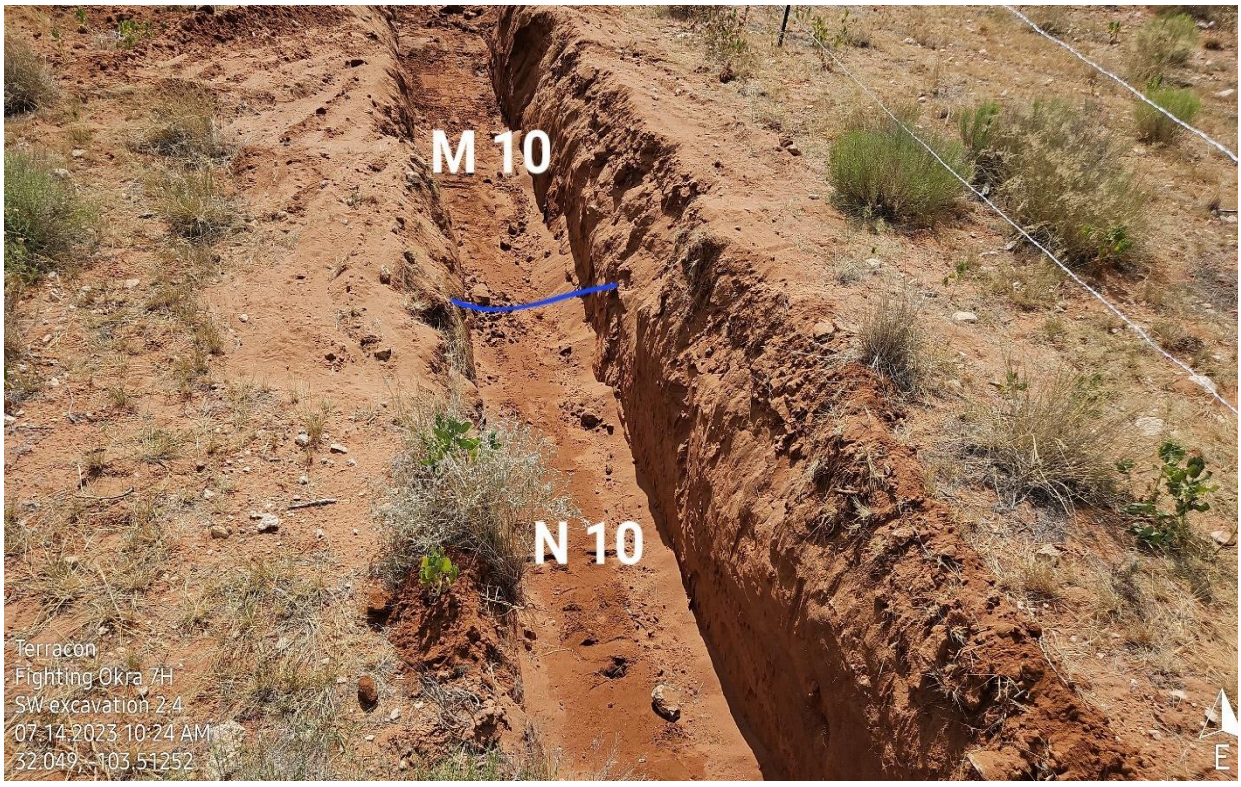


PHOTO 16: East facing view of the southwest excavation area, showing sampling locations.

PHOTO 17: South facing view of the excavation south sidewall.

PHOTO 18: North facing view of the excavation north sidewall.

PHOTO 19: North facing view of the excavation north sidewall.

PHOTO 20: West facing view of the excavation west sidewall, sample locations H2 and H3.

PHOTO 21: Southeast facing view of the excavation south sidewall.

PHOTO 22: South facing view of the excavation south sidewall, sample locations E, F, and G.

PHOTO 23: West facing view of the 6-foot-deep excavation area.

PHOTO 24: North facing view of the 7-foot-deep excavation area.

PHOTO 25: Northeast facing view of the excavation area.

PHOTO 26: Southwest facing view of the excavation area.

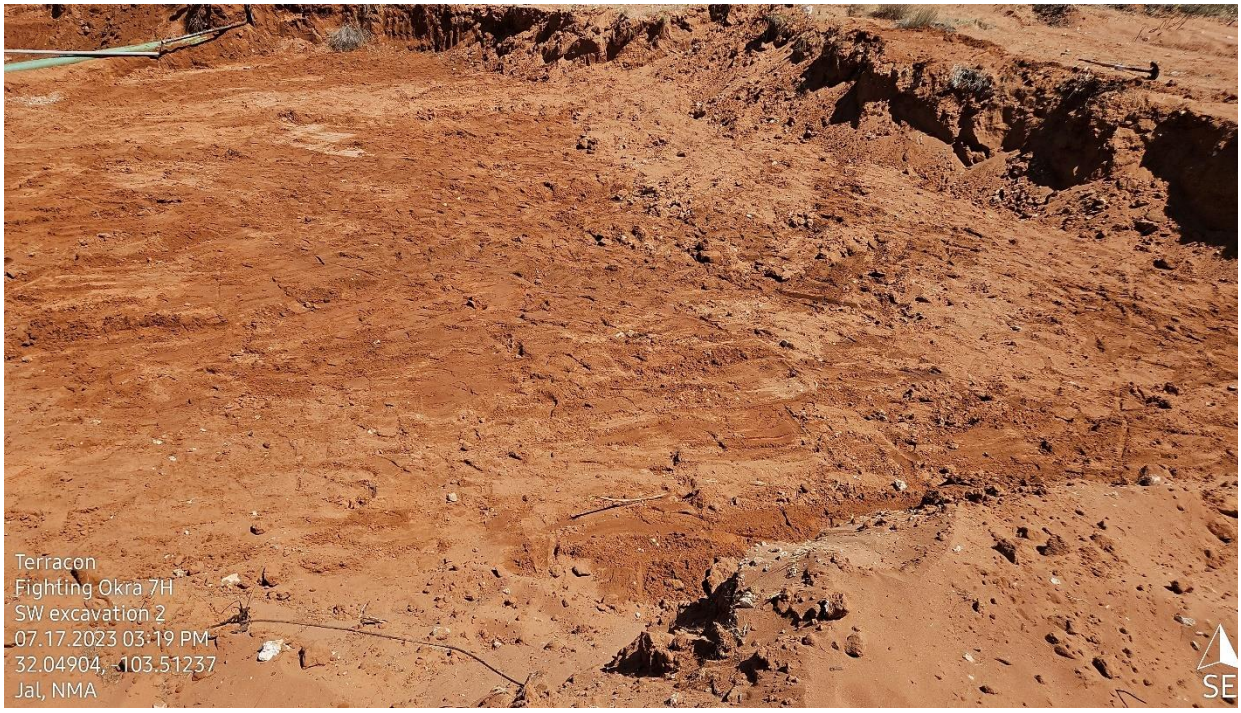


PHOTO 27: Southeast facing view of the excavation area.

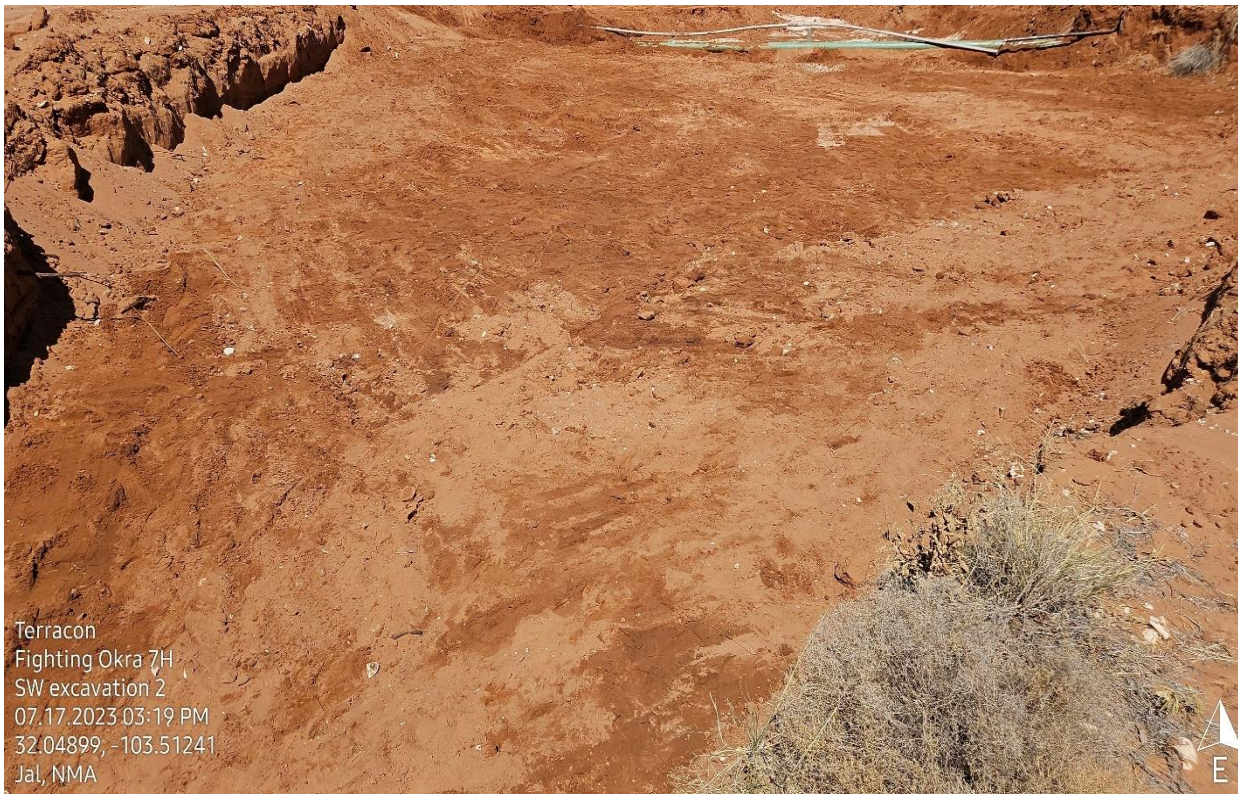


PHOTO 28: East facing view of the excavation area.

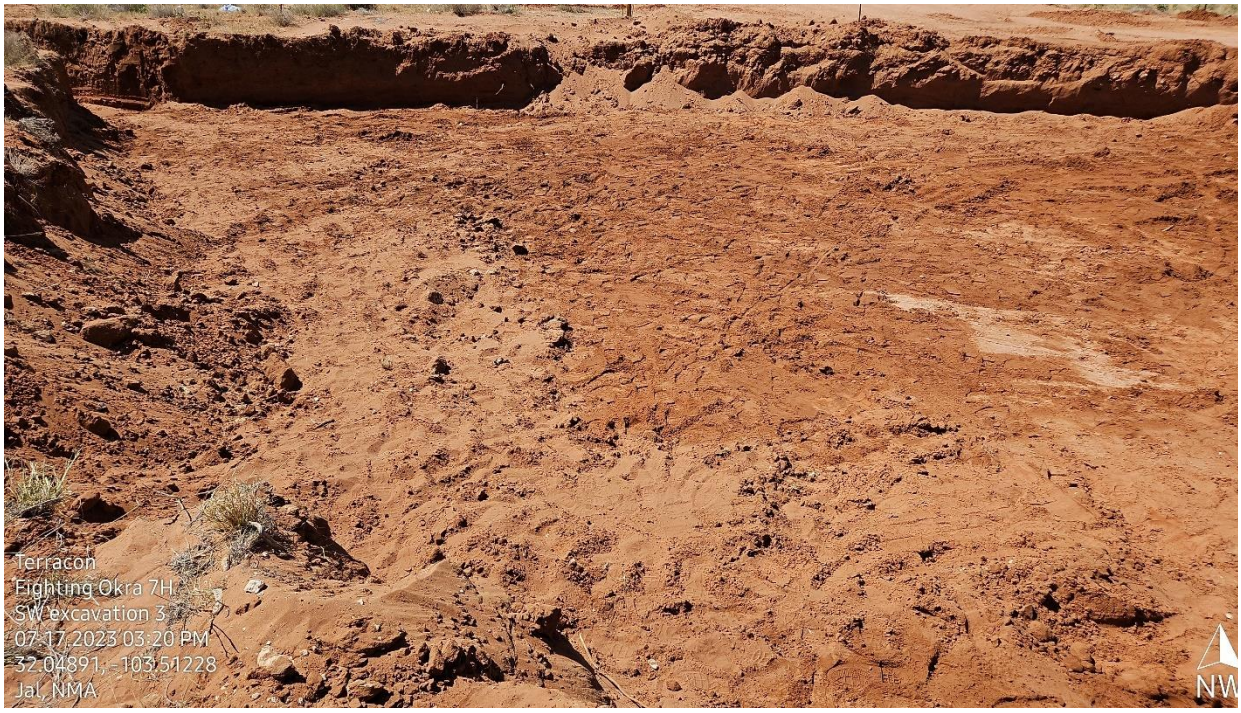


PHOTO 29: Northwest facing view of the excavation area.

PHOTO 30: West facing view of the southwest excavation area.

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 7/21/2023 3:59:18 PM

JOB DESCRIPTION

Fighting Okra
SDG NUMBER KH237008

JOB NUMBER

890-4933-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

my EOL

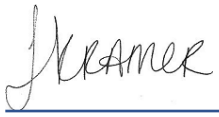
Eurofins Carlsbad

Job Notes

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

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Laboratory Job ID: 890-4933-1
SDG: KH237008

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists Job ID: 890-4933-1
Project/Site: Fighting Okra SDG: KH237008

Qualifiers

GC VOA

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

GC Semi VOA

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

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Job ID: 890-4933-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4933-1

Receipt
The samples were received on 7/12/2023 10:20 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 2.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: A-4 FS (890-4933-1), A-5 FS (890-4933-2), A-6 FS (890-4933-3), B-1 FS (890-4933-4), B-2 FS (890-4933-5), B-3 FS (890-4933-6), B-5 FS (890-4933-7), B-6 FS (890-4933-8), C-3 FS (890-4933-9), C-4 FS (890-4933-10), C-5 FS (890-4933-11), C-6 FS (890-4933-12), C-7 FS (890-4933-13), C-1 FS (890-4933-14), C-2 FS (890-4933-15), B-4 FS (890-4933-16), B-7 FS (890-4933-17), D-4 FS (890-4933-18), D-5 FS (890-4933-19), D-6 FS (890-4933-20), D-1 FS (890-4933-21), D-2 FS (890-4933-22), D-3 FS (890-4933-23), D-7 FS (890-4933-24), E-1 FS (890-4933-25), E-2 FS (890-4933-26), E-3 FS (890-4933-27), E-4 FS (890-4933-28), E-5 FS (890-4933-29), H-2 FS (890-4933-30), H-3 FS (890-4933-31), G-2 FS (890-4933-32), G-3 FS (890-4933-33), F-1 FS (890-4933-34), F-2 FS (890-4933-35), F-3 FS (890-4933-36), F-4 FS (890-4933-37), G-1 FS (890-4933-38), G-4 FS (890-4933-39), NSW01 (E1,D1,C1) (890-4933-40), NESW01 (B1,B2) (890-4933-41), ESW01 (A4,A5,A6) (890-4933-42), SESW01 (B6,B7) (890-4933-43), S SW01 (B7,C7,D7) (890-4933-44), SW SW01 (H3,G4,F4,E5) (890-4933-45), SSW01C (B7,C7,D7) (890-4933-46) and SESW01 (B7,B6) (890-4933-47).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-57560/20), (CCV 880-57560/33), (LCS 880-57610/1-A) and (LCSD 880-57610/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: A-4 FS (890-4933-1), A-5 FS (890-4933-2), B-1 FS (890-4933-4), B-2 FS (890-4933-5), B-3 FS (890-4933-6), B-5 FS (890-4933-7), C-3 FS (890-4933-9), C-4 FS (890-4933-10), (890-4933-A-1-D MS) and (890-4933-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57560 recovered above the upper control limit for Benzene and Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57560/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-5 FS (890-4933-11), C-6 FS (890-4933-12), C-7 FS (890-4933-13), C-1 FS (890-4933-14), C-2 FS (890-4933-15), B-4 FS (890-4933-16), B-7 FS (890-4933-17), D-4 FS (890-4933-18), D-5 FS (890-4933-19) and D-6 FS (890-4933-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57611 and analytical batch 880-57653 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: E-1 FS (890-4933-25), E-2 FS (890-4933-26), E-3 FS (890-4933-27), E-4 FS (890-4933-28), H-2 FS (890-4933-30), G-2 FS (890-4933-32), G-3 FS (890-4933-33), F-2 FS (890-4933-35), F-3 FS (890-4933-36), G-1 FS (890-4933-38), G-4 FS (890-4933-39) and NSW01 (E1,D1,C1) (890-4933-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: E-2 FS (890-4933-26), G-2 FS (890-4933-32) and G-3 FS (890-4933-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58088 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene due to carryover. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58088/51).

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Job ID: 890-4933-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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 880-57659 and analytical batch 880-57762 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: NESW01 (B1,B2) (890-4933-41), ESW01 (A4,A5,A6) (890-4933-42), SESW01 (B6,B7) (890-4933-43), S SW01 (B7,C7,D7) (890-4933-44), SW SW01 (H3,G4,F4,E5) (890-4933-45), SSW01C (B7,C7,D7) (890-4933-46), SESW01 (B7,B6) (890-4933-47), (890-4933-A-41-H MS) and (890-4933-A-41-I 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: (CCV 880-57762/20), (CCV 880-57762/5) and (LCSD 880-57659/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57659 and analytical batch 880-57762 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57658 and analytical batch 880-57888 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-57888/20), (CCV 880-57888/31) and (CCV 880-57888/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: D-1 FS (890-4933-21), D-2 FS (890-4933-22) and (890-4933-A-21-I 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: D-7 FS (890-4933-24), E-1 FS (890-4933-25), E-2 FS (890-4933-26), E-3 FS (890-4933-27), E-4 FS (890-4933-28), E-5 FS (890-4933-29), H-2 FS (890-4933-30), H-3 FS (890-4933-31), G-2 FS (890-4933-32), G-3 FS (890-4933-33), F-1 FS (890-4933-34), F-2 FS (890-4933-35), F-3 FS (890-4933-36), F-4 FS (890-4933-37), G-1 FS (890-4933-38) and G-4 FS (890-4933-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-57888 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57888/20).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57656 and analytical batch 880-57994 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-57994/20), (CCV 880-57994/31) and (CCV 880-57994/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: A-4 FS (890-4933-1), A-5 FS (890-4933-2), B-1 FS (890-4933-4), B-2 FS (890-4933-5), B-5 FS (890-4933-7), B-6 FS (890-4933-8), C-3 FS (890-4933-9), C-4 FS (890-4933-10), (890-4933-A-1-H MS) and (890-4933-A-1-I 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: C-5 FS (890-4933-11), C-6 FS (890-4933-12), C-7 FS (890-4933-13), C-1 FS (890-4933-14), C-2 FS (890-4933-15), D-4 FS (890-4933-18) and D-5 FS (890-4933-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Job ID: 890-4933-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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 880-57540 and analytical batch 880-57622 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57541 and analytical batch 880-57623 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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: A-4 FS

Date Collected: 07/11/23 10:15
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-1
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		07/13/23 13:03	07/14/23 02:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 02:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 02:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 02:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 02:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 02:24*	*1*
1,4-Difluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*07/13/23 13:03*	*07/14/23 02:24*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/20/23 13:03	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	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 13:44	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 13:44	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 13:44*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/14/23 08:27*	*07/19/23 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.6**		4.98		mg/Kg			07/13/23 16:14	1

Client Sample ID: A-5 FS

Date Collected: 07/11/23 10:18
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-2
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		07/13/23 13:03	07/14/23 02:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 02:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 02:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/13/23 13:03	07/14/23 02:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 02:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/13/23 13:03	07/14/23 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 02:50*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: A-5 FS

Date Collected: 07/11/23 10:18
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/13/23 13:03*	*07/14/23 02:50*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/20/23 13:03	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	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 14:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 14:50	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 14:50*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 14:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.3**		4.99		mg/Kg			07/13/23 16:29	1

Client Sample ID: A-6 FS

Date Collected: 07/11/23 10:21
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-3

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		07/13/23 13:03	07/14/23 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/13/23 13:03	07/14/23 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/13/23 13:03	07/14/23 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/13/23 13:03*	*07/14/23 03:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/13/23 13:03*	*07/14/23 03:16*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/20/23 13:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: A-6 FS

Date Collected: 07/11/23 10:21
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-3
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	<49.8	U	49.8		mg/Kg		07/14/23 08:27	07/19/23 15:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/23 08:27	07/19/23 15:13	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/23 08:27	07/19/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/14/23 08:27*	*07/19/23 15:13*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/23 08:27*	*07/19/23 15:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.8**		5.00		mg/Kg			07/13/23 16:35	1

Client Sample ID: B-1 FS

Date Collected: 07/10/23 11:26
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-4
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		07/13/23 13:03	07/14/23 03:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 03:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 03:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 03:42*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*07/13/23 13:03*	*07/14/23 03:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/20/23 13:03	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	<50.2	U	50.2		mg/Kg		07/14/23 08:27	07/19/23 15:35	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/14/23 08:27	07/19/23 15:35	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/14/23 08:27	07/19/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*170*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 15:35*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 15:35*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-1 FS

Lab Sample ID: 890-4933-4
Matrix: Solid
Date Collected: 07/10/23 11:26
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.00		mg/Kg			07/13/23 16:40	1

Client Sample ID: B-2 FS

Lab Sample ID: 890-4933-5
Matrix: Solid
Date Collected: 07/10/23 11:28
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:03	07/14/23 04:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 04:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 04:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/13/23 13:03	07/14/23 04:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 04:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/13/23 13:03	07/14/23 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 04:08*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*07/13/23 13:03*	*07/14/23 04:08*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			07/20/23 13:03	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	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 15:58	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 15:58	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 15:58*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/23 08:27*	*07/19/23 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		5.05		mg/Kg			07/13/23 16:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-3 FS

Date Collected: 07/10/23 11:31
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-6
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		07/13/23 13:03	07/14/23 04:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 04:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 04:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 04:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 04:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 04:34*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*07/13/23 13:03*	*07/14/23 04:34*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/20/23 13:03	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	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:20	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*07/14/23 08:27*	*07/19/23 16:20*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/14/23 08:27*	*07/19/23 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		5.02		mg/Kg			07/13/23 17:00	1

Client Sample ID: B-5 FS

Date Collected: 07/10/23 11:35
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-7
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		07/13/23 13:03	07/14/23 05:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 05:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 05:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/13/23 13:03	07/14/23 05:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 05:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/13/23 13:03	07/14/23 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 05:00*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-5 FS

Date Collected: 07/10/23 11:35
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-7

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*07/13/23 13:03*	*07/14/23 05:00*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/20/23 13:03	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	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:43	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:27	07/19/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 16:43*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/23 08:27*	*07/19/23 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**554**		5.00		mg/Kg			07/13/23 17:05	1

Client Sample ID: B-6 FS

Date Collected: 07/10/23 11:38
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-8

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		07/13/23 13:03	07/14/23 05:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 05:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 05:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 05:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 05:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/13/23 13:03*	*07/14/23 05:26*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/13/23 13:03*	*07/14/23 05:26*	*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			07/14/23 10:17	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			07/20/23 13:03	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-6 FS

Date Collected: 07/10/23 11:38
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-8
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	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 17:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 17:05*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/14/23 08:27*	*07/19/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		4.99		mg/Kg			07/13/23 17:11	1

Client Sample ID: C-3 FS

Date Collected: 07/10/23 11:51
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-9
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		07/13/23 13:03	07/14/23 05:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 05:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 05:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 05:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 05:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 05:52*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/23 13:03*	*07/14/23 05:52*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			07/20/23 13:03	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	<50.4	U	50.4		mg/Kg		07/14/23 08:27	07/19/23 17:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/14/23 08:27	07/19/23 17:28	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/14/23 08:27	07/19/23 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 17:28*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 17:28*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-3 FS

Lab Sample ID: 890-4933-9
Matrix: Solid
Date Collected: 07/10/23 11:51
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	371		4.97		mg/Kg			07/13/23 17:16	1

Client Sample ID: C-4 FS

Lab Sample ID: 890-4933-10
Matrix: Solid
Date Collected: 07/10/23 11:53
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:03	07/14/23 06:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 06:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 06:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/13/23 13:03	07/14/23 06:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 06:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/13/23 13:03	07/14/23 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 06:19*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*07/13/23 13:03*	*07/14/23 06:19*	*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			07/14/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			07/20/23 13:03	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	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 17:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 17:50	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/14/23 08:27	07/19/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*167*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 17:50*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 17:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		5.04		mg/Kg			07/13/23 17:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-5 FS

Date Collected: 07/10/23 11:56
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-11

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		07/13/23 13:03	07/14/23 08:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 08:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 08:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/13/23 13:03	07/14/23 08:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 08:04	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/13/23 13:03	07/14/23 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 08:04*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/13/23 13:03*	*07/14/23 08:04*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/20/23 13:03	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	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:35	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:35	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 18:35*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**	**F1**	4.95		mg/Kg			07/13/23 17:26	1

Client Sample ID: C-6 FS

Date Collected: 07/10/23 11:59
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-12

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		07/13/23 13:03	07/14/23 09:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 09:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 09:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 09:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 09:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 09:35*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-6 FS

Date Collected: 07/10/23 11:59
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/13/23 13:03*	*07/14/23 09:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/20/23 13:03	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	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:57	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:57	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/14/23 08:27	07/19/23 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 18:57*	*1*
o-Terphenyl	*127*		*70 - 130*	*07/14/23 08:27*	*07/19/23 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		5.00		mg/Kg			07/13/23 17:41	1

Client Sample ID: C-7 FS

Date Collected: 07/10/23 12:04
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-13
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		07/13/23 13:03	07/14/23 10:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 10:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 10:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 10:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 10:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 10:00*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/13/23 13:03*	*07/14/23 10:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/14/23 14:08	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			07/20/23 13:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-7 FS

Lab Sample ID: 890-4933-13
Matrix: Solid

Date Collected: 07/10/23 12:04
Date Received: 07/12/23 10:20
Sample Depth: 7

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		07/14/23 08:27	07/19/23 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 19:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 19:19*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/23 08:27*	*07/19/23 19:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.7**		4.99		mg/Kg			07/13/23 17:46	1

Client Sample ID: C-1 FS

Lab Sample ID: 890-4933-14
Matrix: Solid

Date Collected: 07/10/23 11:43
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:03	07/14/23 10:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 10:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 10:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/13/23 13:03	07/14/23 10:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:03	07/14/23 10:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/13/23 13:03	07/14/23 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 10:25*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*07/13/23 13:03*	*07/14/23 10:25*	*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			07/14/23 14:08	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			07/20/23 13:03	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		07/14/23 08:27	07/19/23 19:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/23 08:27	07/19/23 19:42	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/23 08:27	07/19/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*176*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 19:42*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/19/23 19:42*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-1 FS

Lab Sample ID: 890-4933-14
Matrix: Solid

Date Collected: 07/10/23 11:43
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**285**		4.98		mg/Kg			07/13/23 18:02	1

Client Sample ID: C-2 FS

Lab Sample ID: 890-4933-15
Matrix: Solid

Date Collected: 07/10/23 11:48
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:03	07/14/23 10:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 10:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 10:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/13/23 13:03	07/14/23 10:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:03	07/14/23 10:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/13/23 13:03	07/14/23 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 10:51*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/13/23 13:03*	*07/14/23 10:51*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**206**		49.6		mg/Kg			07/20/23 13:03	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	<49.6	U	49.6		mg/Kg		07/14/23 08:27	07/20/23 06:35	1
Diesel Range Organics (Over C10-C28)	**206**		49.6		mg/Kg		07/14/23 08:27	07/20/23 06:35	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/14/23 08:27	07/20/23 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/20/23 06:35*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/14/23 08:27*	*07/20/23 06:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		5.05		mg/Kg			07/13/23 18:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-4 FS

Date Collected: 07/10/23 11:33
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-16
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		07/13/23 13:03	07/14/23 11:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 11:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 11:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 11:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 11:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 11:17*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/13/23 13:03*	*07/14/23 11:17*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**235**		49.5		mg/Kg			07/20/23 13:03	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	<49.5	U	49.5		mg/Kg		07/14/23 08:27	07/20/23 07:19	1
Diesel Range Organics (Over C10-C28)	**235**		49.5		mg/Kg		07/14/23 08:27	07/20/23 07:19	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		07/14/23 08:27	07/20/23 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*07/14/23 08:27*	*07/20/23 07:19*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/23 08:27*	*07/20/23 07:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**489**		4.98		mg/Kg			07/13/23 18:12	1

Client Sample ID: B-7 FS

Date Collected: 07/10/23 11:41
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-17
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		07/13/23 13:03	07/14/23 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 11:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 11:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/23 13:03	07/14/23 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 11:43*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-7 FS

Date Collected: 07/10/23 11:41
Date Received: 07/12/23 10:20
Sample Depth: 7

Lab Sample ID: 890-4933-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*07/13/23 13:03*	*07/14/23 11:43*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			07/20/23 13:03	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	<50.5	U	50.5		mg/Kg		07/14/23 08:27	07/20/23 07:41	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/14/23 08:27	07/20/23 07:41	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/14/23 08:27	07/20/23 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/14/23 08:27*	*07/20/23 07:41*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/23 08:27*	*07/20/23 07:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**704**		4.96		mg/Kg			07/13/23 18:17	1

Client Sample ID: D-4 FS

Date Collected: 07/10/23 11:14
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-18
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		07/13/23 13:03	07/14/23 12:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 12:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 12:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 12:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:03	07/14/23 12:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/23 13:03	07/14/23 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/13/23 13:03*	*07/14/23 12:08*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1630**		50.5		mg/Kg			07/20/23 13:03	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-4 FS

Lab Sample ID: 890-4933-18
Matrix: Solid
Date Collected: 07/10/23 11:14
Date Received: 07/12/23 10:20
Sample Depth: 4

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	<50.5	U	50.5		mg/Kg		07/14/23 08:27	07/20/23 08:02	1
Diesel Range Organics (Over C10-C28)	**1630**		50.5		mg/Kg		07/14/23 08:27	07/20/23 08:02	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/14/23 08:27	07/20/23 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/20/23 08:02*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/23 08:27*	*07/20/23 08:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2030**		25.0		mg/Kg			07/13/23 18:23	5

Client Sample ID: D-5 FS

Lab Sample ID: 890-4933-19
Matrix: Solid
Date Collected: 07/10/23 11:16
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:03	07/14/23 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 12:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/13/23 13:03	07/14/23 12:34	1
o-Xylene	**0.00245**		0.00200		mg/Kg		07/13/23 13:03	07/14/23 12:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/13/23 13:03	07/14/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 12:34*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/13/23 13:03*	*07/14/23 12:34*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1390**		50.4		mg/Kg			07/20/23 13:03	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	<50.4	U	50.4		mg/Kg		07/14/23 08:27	07/20/23 08:23	1
Diesel Range Organics (Over C10-C28)	**1390**		50.4		mg/Kg		07/14/23 08:27	07/20/23 08:23	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/14/23 08:27	07/20/23 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*07/14/23 08:27*	*07/20/23 08:23*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/14/23 08:27*	*07/20/23 08:23*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-5 FS

Lab Sample ID: 890-4933-19
Matrix: Solid
Date Collected: 07/10/23 11:16
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2750**		25.3		mg/Kg			07/13/23 18:28	5

Client Sample ID: D-6 FS

Lab Sample ID: 890-4933-20
Matrix: Solid
Date Collected: 07/10/23 11:20
Date Received: 07/12/23 10:20
Sample Depth: 7

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		07/13/23 13:03	07/14/23 13:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 13:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 13:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 13:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:03	07/14/23 13:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/23 13:03	07/14/23 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*07/13/23 13:03*	*07/14/23 13:00*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/13/23 13:03*	*07/14/23 13:00*	*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			07/14/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1980**		49.7		mg/Kg			07/20/23 13:03	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	<49.7	U	49.7		mg/Kg		07/14/23 08:28	07/20/23 08:45	1
Diesel Range Organics (Over C10-C28)	**1980**		49.7		mg/Kg		07/14/23 08:28	07/20/23 08:45	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:28	07/20/23 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*07/14/23 08:28*	*07/20/23 08:45*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/23 08:28*	*07/20/23 08:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1350**		5.00		mg/Kg			07/13/23 18:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-1 FS

Lab Sample ID: 890-4933-21
Matrix: Solid

Date Collected: 07/10/23 11:07
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/15/23 20:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:27	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/13/23 13:09	07/15/23 20:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/13/23 13:09	07/15/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:27*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**215**		49.8		mg/Kg			07/19/23 11:07	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		07/14/23 08:34	07/18/23 12:47	1
Diesel Range Organics (Over C10-C28)	**215**		49.8		mg/Kg		07/14/23 08:34	07/18/23 12:47	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/23 08:34	07/18/23 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*07/14/23 08:34*	*07/18/23 12:47*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/14/23 08:34*	*07/18/23 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**956**	**F1**	4.99		mg/Kg			07/13/23 19:14	1

Client Sample ID: D-2 FS

Lab Sample ID: 890-4933-22
Matrix: Solid

Date Collected: 07/10/23 11:09
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/15/23 20:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/23 13:09	07/15/23 20:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/23 13:09	07/15/23 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:48*	*1*

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-2 FS

Date Collected: 07/10/23 11:09
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-22

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:48*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**980**		50.5		mg/Kg			07/19/23 11:07	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	<50.5	U	50.5		mg/Kg		07/14/23 08:35	07/18/23 13:54	1
Diesel Range Organics (Over C10-C28)	**980**		50.5		mg/Kg		07/14/23 08:35	07/18/23 13:54	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/14/23 08:35	07/18/23 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 13:54*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/14/23 08:35*	*07/18/23 13:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		5.00		mg/Kg			07/13/23 19:29	1

Client Sample ID: D-3 FS

Date Collected: 07/10/23 11:11
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-23

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		07/13/23 13:09	07/15/23 21:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:09	07/15/23 21:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:09	07/15/23 21:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:09	07/15/23 21:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:09	07/15/23 21:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/23 13:09	07/15/23 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/15/23 21:08*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/13/23 13:09*	*07/15/23 21:08*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2480**		50.3		mg/Kg			07/19/23 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-3 FS

Lab Sample ID: 890-4933-23
Matrix: Solid
Date Collected: 07/10/23 11:11
Date Received: 07/12/23 10:20
Sample Depth: 4

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	<50.3	U	50.3		mg/Kg		07/14/23 08:35	07/18/23 14:16	1
Diesel Range Organics (Over C10-C28)	**2480**		50.3		mg/Kg		07/14/23 08:35	07/18/23 14:16	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/14/23 08:35	07/18/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/14/23 08:35*	*07/18/23 14:16*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/14/23 08:35*	*07/18/23 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		24.9		mg/Kg			07/13/23 19:34	5

Client Sample ID: D-7 FS

Lab Sample ID: 890-4933-24
Matrix: Solid
Date Collected: 07/10/23 11:22
Date Received: 07/12/23 10:20
Sample Depth: 7

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		07/13/23 13:09	07/15/23 21:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/15/23 21:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/15/23 21:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/13/23 13:09	07/15/23 21:29	1
o-Xylene	**0.0144**		0.00202		mg/Kg		07/13/23 13:09	07/15/23 21:29	1
Xylenes, Total	**0.0144**		0.00404		mg/Kg		07/13/23 13:09	07/15/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/13/23 13:09*	*07/15/23 21:29*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*07/13/23 13:09*	*07/15/23 21:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0144**		0.00404		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**276**		50.2		mg/Kg			07/19/23 11:07	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	<50.2	U	50.2		mg/Kg		07/14/23 08:35	07/18/23 14:38	1
Diesel Range Organics (Over C10-C28)	**276**		50.2		mg/Kg		07/14/23 08:35	07/18/23 14:38	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/14/23 08:35	07/18/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 14:38*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/23 08:35*	*07/18/23 14:38*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-7 FS

Lab Sample ID: 890-4933-24
Matrix: Solid
Date Collected: 07/10/23 11:22
Date Received: 07/12/23 10:20
Sample Depth: 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3040		24.8		mg/Kg			07/13/23 19:40	5

Client Sample ID: E-1 FS

Lab Sample ID: 890-4933-25
Matrix: Solid
Date Collected: 07/11/23 08:53
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/15/23 21:49	1
Toluene	0.0143		0.00200		mg/Kg		07/13/23 13:09	07/15/23 21:49	1
Ethylbenzene	0.244		0.00200		mg/Kg		07/13/23 13:09	07/15/23 21:49	1
m-Xylene & p-Xylene	0.676		0.00399		mg/Kg		07/13/23 13:09	07/15/23 21:49	1
o-Xylene	0.325		0.00200		mg/Kg		07/13/23 13:09	07/15/23 21:49	1
Xylenes, Total	1.00		0.00399		mg/Kg		07/13/23 13:09	07/15/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*346*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/15/23 21:49*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/15/23 21:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.26		0.00399		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30300		499		mg/Kg			07/19/23 11:07	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	776		499		mg/Kg		07/14/23 08:35	07/18/23 17:59	10
Diesel Range Organics (Over C10-C28)	29500		499		mg/Kg		07/14/23 08:35	07/18/23 17:59	10
Oil Range Organics (Over C28-C36)	<499	U	499		mg/Kg		07/14/23 08:35	07/18/23 17:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*325*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 17:59*	*10*
o-Terphenyl	*403*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 17:59*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3340		25.0		mg/Kg			07/13/23 19:45	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: E-2 FS

Date Collected: 07/11/23 08:55
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-26
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		07/13/23 13:09	07/15/23 22:10	1
Toluene	**0.0399**		0.00198		mg/Kg		07/13/23 13:09	07/15/23 22:10	1
Ethylbenzene	**0.258**		0.00198		mg/Kg		07/13/23 13:09	07/15/23 22:10	1
m-Xylene & p-Xylene	**1.68**		0.0806		mg/Kg		07/17/23 08:40	07/17/23 18:43	20
o-Xylene	**0.378**		0.00198		mg/Kg		07/13/23 13:09	07/15/23 22:10	1
Xylenes, Total	**2.25**		0.0806		mg/Kg		07/17/23 08:40	07/17/23 18:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*355*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/15/23 22:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/13/23 13:09*	*07/15/23 22:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**2.36**		0.0806		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**12400**		249		mg/Kg			07/19/23 11:07	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	**422**		249		mg/Kg		07/14/23 08:35	07/19/23 06:33	5
Diesel Range Organics (Over C10-C28)	**12000**		249		mg/Kg		07/14/23 08:35	07/19/23 06:33	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		07/14/23 08:35	07/19/23 06:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 06:33*	*5*
o-Terphenyl	*127*		*70 - 130*	*07/14/23 08:35*	*07/19/23 06:33*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2540**		24.9		mg/Kg			07/13/23 20:00	5

Client Sample ID: E-3 FS

Date Collected: 07/11/23 08:58
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-27
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		07/13/23 13:09	07/15/23 22:30	1
Toluene	**0.0146**		0.00202		mg/Kg		07/13/23 13:09	07/15/23 22:30	1
Ethylbenzene	**0.158**		0.00202		mg/Kg		07/13/23 13:09	07/15/23 22:30	1
m-Xylene & p-Xylene	**0.517**		0.00403		mg/Kg		07/13/23 13:09	07/15/23 22:30	1
o-Xylene	**0.272**		0.00202		mg/Kg		07/13/23 13:09	07/15/23 22:30	1
Xylenes, Total	**0.789**		0.00403		mg/Kg		07/13/23 13:09	07/15/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*289*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/15/23 22:30*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: E-3 FS

Date Collected: 07/11/23 08:58
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-27

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/13/23 13:09*	*07/15/23 22:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.962**		0.00403		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**21300**		252		mg/Kg			07/19/23 11:07	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	**839**		252		mg/Kg		07/14/23 08:35	07/19/23 07:17	5
Diesel Range Organics (Over C10-C28)	**20500**		252		mg/Kg		07/14/23 08:35	07/19/23 07:17	5
OII Range Organics (Over C28-C36)	<252	U	252		mg/Kg		07/14/23 08:35	07/19/23 07:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*251*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 07:17*	*5*
o-Terphenyl	*254*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 07:17*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2510**		25.0		mg/Kg			07/13/23 20:06	5

Client Sample ID: E-4 FS

Date Collected: 07/11/23 09:01
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-28

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		07/13/23 13:09	07/15/23 22:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/15/23 22:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/15/23 22:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:09	07/15/23 22:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/15/23 22:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/23 13:09	07/15/23 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*53*	*S1-*	*70 - 130*	*07/13/23 13:09*	*07/15/23 22:51*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/13/23 13:09*	*07/15/23 22:51*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**563**		50.1		mg/Kg			07/19/23 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: E-4 FS

Lab Sample ID: 890-4933-28
Matrix: Solid
Date Collected: 07/11/23 09:01
Date Received: 07/12/23 10:20
Sample Depth: 4

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	<50.1	U	50.1		mg/Kg		07/14/23 08:35	07/18/23 15:00	1
Diesel Range Organics (Over C10-C28)	**563**		50.1		mg/Kg		07/14/23 08:35	07/18/23 15:00	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/14/23 08:35	07/18/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 15:00*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/23 08:35*	*07/18/23 15:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.5**		4.95		mg/Kg			07/13/23 20:11	1

Client Sample ID: E-5 FS

Lab Sample ID: 890-4933-29
Matrix: Solid
Date Collected: 07/11/23 09:02
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/15/23 23:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:09	07/15/23 23:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:09	07/15/23 23:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:09	07/15/23 23:11	1
o-Xylene	**0.0144**		0.00201		mg/Kg		07/13/23 13:09	07/15/23 23:11	1
Xylenes, Total	**0.0144**		0.00402		mg/Kg		07/13/23 13:09	07/15/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/13/23 13:09*	*07/15/23 23:11*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*07/13/23 13:09*	*07/15/23 23:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0144**		0.00402		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.2**		49.6		mg/Kg			07/19/23 11:07	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	<49.6	U	49.6		mg/Kg		07/14/23 08:35	07/18/23 15:22	1
Diesel Range Organics (Over C10-C28)	**50.2**		49.6		mg/Kg		07/14/23 08:35	07/18/23 15:22	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/14/23 08:35	07/18/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*262*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 15:22*	*1*
o-Terphenyl	*215*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 15:22*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: E-5 FS

Lab Sample ID: 890-4933-29
Matrix: Solid
Date Collected: 07/11/23 09:02
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.2**		5.04		mg/Kg			07/13/23 20:16	1

Client Sample ID: H-2 FS

Lab Sample ID: 890-4933-30
Matrix: Solid
Date Collected: 07/11/23 08:21
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/15/23 23:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/15/23 23:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/15/23 23:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/13/23 13:09	07/15/23 23:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/15/23 23:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/13/23 13:09	07/15/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*	*07/13/23 13:09*	*07/15/23 23:32*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/13/23 13:09*	*07/15/23 23:32*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**878**		49.7		mg/Kg			07/19/23 11:07	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	<49.7	U	49.7		mg/Kg		07/14/23 08:35	07/18/23 15:44	1
Diesel Range Organics (Over C10-C28)	**878**		49.7		mg/Kg		07/14/23 08:35	07/18/23 15:44	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:35	07/18/23 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*253*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 15:44*	*1*
o-Terphenyl	*209*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**746**		5.00		mg/Kg			07/13/23 20:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: H-3 FS

Date Collected: 07/11/23 08:25
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-31
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		07/13/23 13:09	07/16/23 00:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:09	07/16/23 00:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:09	07/16/23 00:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/13/23 13:09	07/16/23 00:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:09	07/16/23 00:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/13/23 13:09	07/16/23 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*07/13/23 13:09*	*07/16/23 00:54*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/13/23 13:09*	*07/16/23 00:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/17/23 14:24	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			07/19/23 11:07	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		07/14/23 08:35	07/18/23 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:35	07/18/23 16:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:35	07/18/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*251*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 16:06*	*1*
o-Terphenyl	*208*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 16:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		4.95		mg/Kg			07/13/23 20:26	1

Client Sample ID: G-2 FS

Date Collected: 07/11/23 08:33
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-32
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		07/13/23 13:09	07/16/23 01:14	1
Toluene	**0.0782**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:14	1
Ethylbenzene	**0.265**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:14	1
m-Xylene & p-Xylene	**2.85**		0.0805		mg/Kg		07/17/23 08:40	07/17/23 19:04	20
o-Xylene	**0.350**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:14	1
Xylenes, Total	**3.74**		0.0805		mg/Kg		07/17/23 08:40	07/17/23 19:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*331*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 01:14*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-2 FS

Date Collected: 07/11/23 08:33
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-32

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/13/23 13:09*	*07/16/23 01:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.54**		0.0805		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**36600**		498		mg/Kg			07/19/23 11:07	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	**1170**		498		mg/Kg		07/14/23 08:35	07/19/23 07:41	10
Diesel Range Organics (Over C10-C28)	**35400**		498		mg/Kg		07/14/23 08:35	07/19/23 07:41	10
Oil Range Organics (Over C28-C36)	<498	U	498		mg/Kg		07/14/23 08:35	07/19/23 07:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*337*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 07:41*	*10*
o-Terphenyl	*439*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 07:41*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6630**		49.9		mg/Kg			07/13/23 20:42	10

Client Sample ID: G-3 FS

Date Collected: 07/11/23 08:36
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-33

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		07/13/23 13:09	07/16/23 01:35	1
Toluene	**0.0178**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:35	1
Ethylbenzene	**0.0758**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:35	1
m-Xylene & p-Xylene	**0.255**		0.00400		mg/Kg		07/13/23 13:09	07/16/23 01:35	1
o-Xylene	**0.0817**		0.00200		mg/Kg		07/13/23 13:09	07/16/23 01:35	1
Xylenes, Total	**0.337**		0.00400		mg/Kg		07/13/23 13:09	07/16/23 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 01:35*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/16/23 01:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.430**		0.00400		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32800**		502		mg/Kg			07/19/23 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-3 FS

Lab Sample ID: 890-4933-33
Matrix: Solid

Date Collected: 07/11/23 08:36
Date Received: 07/12/23 10:20
Sample Depth: 4

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	**872**		502		mg/Kg		07/14/23 08:35	07/19/23 08:04	10
Diesel Range Organics (Over C10-C28)	**31900**		502		mg/Kg		07/14/23 08:35	07/19/23 08:04	10
Oil Range Organics (Over C28-C36)	<502	U	502		mg/Kg		07/14/23 08:35	07/19/23 08:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*343*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:04*	*10*
o-Terphenyl	*386*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:04*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3250**		25.1		mg/Kg			07/13/23 20:47	5

Client Sample ID: F-1 FS

Lab Sample ID: 890-4933-34
Matrix: Solid

Date Collected: 07/11/23 08:42
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/16/23 01:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/16/23 01:55	1
Ethylbenzene	**0.00241**		0.00199		mg/Kg		07/13/23 13:09	07/16/23 01:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:09	07/16/23 01:55	1
o-Xylene	**0.00683**		0.00199		mg/Kg		07/13/23 13:09	07/16/23 01:55	1
Xylenes, Total	**0.00683**		0.00398		mg/Kg		07/13/23 13:09	07/16/23 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/13/23 13:09*	*07/16/23 01:55*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/13/23 13:09*	*07/16/23 01:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00924**		0.00398		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3160**		50.2		mg/Kg			07/19/23 11:07	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	<50.2	U	50.2		mg/Kg		07/14/23 08:35	07/18/23 16:50	1
Diesel Range Organics (Over C10-C28)	**3160**		50.2		mg/Kg		07/14/23 08:35	07/18/23 16:50	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/14/23 08:35	07/18/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*252*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 16:50*	*1*
o-Terphenyl	*192*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 16:50*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: F-1 FS

Lab Sample ID: 890-4933-34
Matrix: Solid
Date Collected: 07/11/23 08:42
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		24.9		mg/Kg			07/13/23 21:03	5

Client Sample ID: F-2 FS

Lab Sample ID: 890-4933-35
Matrix: Solid
Date Collected: 07/11/23 08:45
Date Received: 07/12/23 10:20
Sample Depth: 4

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		07/13/23 13:09	07/16/23 02:16	1
Toluene	0.0632		0.00198		mg/Kg		07/13/23 13:09	07/16/23 02:16	1
Ethylbenzene	0.281		0.00198		mg/Kg		07/13/23 13:09	07/16/23 02:16	1
m-Xylene & p-Xylene	3.57		0.402		mg/Kg		07/20/23 10:20	07/21/23 16:08	100
o-Xylene	0.395		0.00198		mg/Kg		07/13/23 13:09	07/16/23 02:16	1
Xylenes, Total	4.91		0.402		mg/Kg		07/20/23 10:20	07/21/23 16:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*314*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 02:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:09*	*07/16/23 02:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.31		0.402		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32900		505		mg/Kg			07/19/23 11:07	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	1110		505		mg/Kg		07/14/23 08:35	07/19/23 08:28	10
Diesel Range Organics (Over C10-C28)	31800		505		mg/Kg		07/14/23 08:35	07/19/23 08:28	10
OII Range Organics (Over C28-C36)	<505	U	505		mg/Kg		07/14/23 08:35	07/19/23 08:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*476*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:28*	*10*
o-Terphenyl	*365*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:28*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3620		24.8		mg/Kg			07/13/23 21:08	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: F-3 FS

Date Collected: 07/11/23 08:49
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-36
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		07/13/23 13:09	07/16/23 02:36	1
Toluene	**0.0184**		0.00199		mg/Kg		07/13/23 13:09	07/16/23 02:36	1
Ethylbenzene	**0.0955**		0.00199		mg/Kg		07/13/23 13:09	07/16/23 02:36	1
m-Xylene & p-Xylene	**0.251**		0.00398		mg/Kg		07/13/23 13:09	07/16/23 02:36	1
o-Xylene	**0.113**		0.00199		mg/Kg		07/13/23 13:09	07/16/23 02:36	1
Xylenes, Total	**0.364**		0.00398		mg/Kg		07/13/23 13:09	07/16/23 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*227*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 02:36*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/13/23 13:09*	*07/16/23 02:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.478**		0.00398		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**29500**		498		mg/Kg			07/19/23 11:07	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	**728**		498		mg/Kg		07/14/23 08:35	07/19/23 08:50	10
Diesel Range Organics (Over C10-C28)	**28800**		498		mg/Kg		07/14/23 08:35	07/19/23 08:50	10
OII Range Organics (Over C28-C36)	<498	U	498		mg/Kg		07/14/23 08:35	07/19/23 08:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*315*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:50*	*10*
o-Terphenyl	*353*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 08:50*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		24.9		mg/Kg			07/13/23 21:13	5

Client Sample ID: F-4 FS

Date Collected: 07/11/23 08:51
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-37
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		07/13/23 13:09	07/16/23 02:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/16/23 02:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/16/23 02:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/13/23 13:09	07/16/23 02:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:09	07/16/23 02:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/13/23 13:09	07/16/23 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/13/23 13:09*	*07/16/23 02:57*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: F-4 FS

Date Collected: 07/11/23 08:51
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-37

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/13/23 13:09*	*07/16/23 02:57*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1850**		49.9		mg/Kg			07/19/23 11:07	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		07/14/23 08:35	07/18/23 17:34	1
Diesel Range Organics (Over C10-C28)	**1850**		49.9		mg/Kg		07/14/23 08:35	07/18/23 17:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/23 08:35	07/18/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/18/23 17:34*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/14/23 08:35*	*07/18/23 17:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**667**		5.00		mg/Kg			07/13/23 21:18	1

Client Sample ID: G-1 FS

Date Collected: 07/11/23 08:31
Date Received: 07/12/23 10:20
Sample Depth: 4

Lab Sample ID: 890-4933-38

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		07/13/23 13:09	07/16/23 03:17	1
Toluene	**0.0493**		0.00201		mg/Kg		07/13/23 13:09	07/16/23 03:17	1
Ethylbenzene	**0.201**		0.00201		mg/Kg		07/13/23 13:09	07/16/23 03:17	1
m-Xylene & p-Xylene	**0.471**		0.00402		mg/Kg		07/13/23 13:09	07/16/23 03:17	1
o-Xylene	**0.331**		0.00201		mg/Kg		07/13/23 13:09	07/16/23 03:17	1
Xylenes, Total	**0.802**		0.00402		mg/Kg		07/13/23 13:09	07/16/23 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*309*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 03:17*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/13/23 13:09*	*07/16/23 03:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.05**		0.00402		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16900**		250		mg/Kg			07/19/23 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-1 FS

Lab Sample ID: 890-4933-38
Matrix: Solid
Date Collected: 07/11/23 08:31
Date Received: 07/12/23 10:20
Sample Depth: 4

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	646		250		mg/Kg		07/14/23 08:35	07/19/23 09:12	5
Diesel Range Organics (Over C10-C28)	16300		250		mg/Kg		07/14/23 08:35	07/19/23 09:12	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/14/23 08:35	07/19/23 09:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*187*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 09:12*	*5*
o-Terphenyl	*199*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 09:12*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		24.8		mg/Kg			07/13/23 21:23	5

Client Sample ID: G-4 FS

Lab Sample ID: 890-4933-39
Matrix: Solid
Date Collected: 07/11/23 08:39
Date Received: 07/12/23 10:20
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00294		0.00202		mg/Kg		07/13/23 13:09	07/16/23 03:37	1
Toluene	0.139		0.00202		mg/Kg		07/13/23 13:09	07/16/23 03:37	1
Ethylbenzene	0.812		0.199		mg/Kg		07/17/23 08:40	07/17/23 19:45	100
m-Xylene & p-Xylene	3.49		0.398		mg/Kg		07/17/23 08:40	07/17/23 19:45	100
o-Xylene	1.32		0.199		mg/Kg		07/17/23 08:40	07/17/23 19:45	100
Xylenes, Total	4.81		0.398		mg/Kg		07/17/23 08:40	07/17/23 19:45	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*549*	*S1+*	*70 - 130*	*07/13/23 13:09*	*07/16/23 03:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/13/23 13:09*	*07/16/23 03:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.76		0.398		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36300		499		mg/Kg			07/19/23 11:07	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	1590		499		mg/Kg		07/14/23 08:35	07/19/23 09:35	10
Diesel Range Organics (Over C10-C28)	34700		499		mg/Kg		07/14/23 08:35	07/19/23 09:35	10
OII Range Organics (Over C28-C36)	<499	U	499		mg/Kg		07/14/23 08:35	07/19/23 09:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*458*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 09:35*	*10*
o-Terphenyl	*436*	*S1+*	*70 - 130*	*07/14/23 08:35*	*07/19/23 09:35*	*10*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-4 FS

Lab Sample ID: 890-4933-39
Matrix: Solid
Date Collected: 07/11/23 08:39
Date Received: 07/12/23 10:20
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3250**		25.3		mg/Kg			07/13/23 21:28	5

Client Sample ID: NSW01 (E1,D1,C1)

Lab Sample ID: 890-4933-40
Matrix: Solid
Date Collected: 07/11/23 09:15
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:09	07/16/23 03:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/16/23 03:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/16/23 03:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/23 13:09	07/16/23 03:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/23 13:09	07/16/23 03:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/23 13:09	07/16/23 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/13/23 13:09*	*07/16/23 03:58*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*07/13/23 13:09*	*07/16/23 03:58*	*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			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**453**		50.1		mg/Kg			07/19/23 11:07	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	<50.1	U	50.1		mg/Kg		07/14/23 08:35	07/18/23 16:28	1
Diesel Range Organics (Over C10-C28)	**453**		50.1		mg/Kg		07/14/23 08:35	07/18/23 16:28	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/14/23 08:35	07/18/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/14/23 08:35*	*07/18/23 16:28*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/14/23 08:35*	*07/18/23 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		5.02		mg/Kg			07/13/23 21:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: NESW01 (B1,B2)

Lab Sample ID: 890-4933-41
Matrix: Solid
Date Collected: 07/11/23 09:18
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:21	07/14/23 01:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/13/23 13:21	07/14/23 01:16	1
Ethylbenzene	**0.00283**		0.00202		mg/Kg		07/13/23 13:21	07/14/23 01:16	1
m-Xylene & p-Xylene	**0.0311**		0.00403		mg/Kg		07/13/23 13:21	07/14/23 01:16	1
o-Xylene	**0.0110**		0.00202		mg/Kg		07/13/23 13:21	07/14/23 01:16	1
Xylenes, Total	**0.0421**		0.00403		mg/Kg		07/13/23 13:21	07/14/23 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0449**		0.00403		mg/Kg			07/14/23 09:55	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			07/18/23 09:40	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	<49.8	U	49.8		mg/Kg		07/14/23 08:40	07/17/23 13:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		07/14/23 08:40	07/17/23 13:08	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/23 08:40	07/17/23 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 13:08*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/23 08:40*	*07/17/23 13:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		4.98		mg/Kg			07/13/23 22:15	1

Client Sample ID: ESW01 (A4,A5,A6)

Lab Sample ID: 890-4933-42
Matrix: Solid
Date Collected: 07/11/23 09:21
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:21	07/14/23 01:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:21	07/14/23 01:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:21	07/14/23 01:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/23 13:21	07/14/23 01:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/23 13:21	07/14/23 01:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/23 13:21	07/14/23 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:37*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: ESW01 (A4,A5,A6)

Lab Sample ID: 890-4933-42
Matrix: Solid

Date Collected: 07/11/23 09:21
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:37*	*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			07/14/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/18/23 09:40	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	<50.2	U	50.2		mg/Kg		07/14/23 08:40	07/17/23 14:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/14/23 08:40	07/17/23 14:16	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/14/23 08:40	07/17/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 14:16*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/14/23 08:40*	*07/17/23 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.4**		4.97		mg/Kg			07/13/23 22:30	1

Client Sample ID: SESW01 (B6,B7)

Lab Sample ID: 890-4933-43
Matrix: Solid

Date Collected: 07/11/23 09:24
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:21	07/14/23 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 01:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/23 13:21	07/14/23 01:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 01:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/23 13:21	07/14/23 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/13/23 13:21*	*07/14/23 01:57*	*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			07/14/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/18/23 09:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: SESW01 (B6,B7)

Lab Sample ID: 890-4933-43
Matrix: Solid
Date Collected: 07/11/23 09:24
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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	<49.6	U	49.6		mg/Kg		07/14/23 08:40	07/17/23 14:38	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/14/23 08:40	07/17/23 14:38	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/14/23 08:40	07/17/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 14:38*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/23 08:40*	*07/17/23 14:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		4.99		mg/Kg			07/13/23 22:35	1

Client Sample ID: S SW01 (B7,C7,D7)

Lab Sample ID: 890-4933-44
Matrix: Solid
Date Collected: 07/11/23 09:27
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:21	07/14/23 02:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 02:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 02:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/13/23 13:21	07/14/23 02:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 02:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/13/23 13:21	07/14/23 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:17*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:17*	*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			07/14/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/18/23 09:40	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	<49.7	U	49.7		mg/Kg		07/14/23 08:40	07/17/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/23 08:40	07/17/23 15:00	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/23 08:40	07/17/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 15:00*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 15:00*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: S SW01 (B7,C7,D7)

Lab Sample ID: 890-4933-44
Matrix: Solid
Date Collected: 07/11/23 09:27
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.2		4.99		mg/Kg			07/13/23 22:41	1

Client Sample ID: SW SW01 (H3,G4,F4,E5)

Lab Sample ID: 890-4933-45
Matrix: Solid
Date Collected: 07/11/23 09:31
Date Received: 07/12/23 10:20
Sample Depth: 0 - 4

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		07/13/23 13:21	07/14/23 02:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:38	1
Ethylbenzene	0.00202		0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:38	1
m-Xylene & p-Xylene	0.0140		0.00399		mg/Kg		07/13/23 13:21	07/14/23 02:38	1
o-Xylene	0.00504		0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:38	1
Xylenes, Total	0.0190		0.00399		mg/Kg		07/13/23 13:21	07/14/23 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:38*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0211		0.00399		mg/Kg			07/14/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			07/18/23 09:40	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	<50.5	U	50.5		mg/Kg		07/14/23 08:40	07/17/23 15:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/14/23 08:40	07/17/23 15:21	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/14/23 08:40	07/17/23 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 15:21*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/14/23 08:40*	*07/17/23 15:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.2		4.96		mg/Kg			07/13/23 22:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: SSW01C (B7,C7,D7)

Lab Sample ID: 890-4933-46
Matrix: Solid

Date Collected: 07/11/23 09:34
Date Received: 07/12/23 10:20
Sample Depth: 4 - 7

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		07/13/23 13:21	07/14/23 02:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:58	1
m-Xylene & p-Xylene	**0.00413**		0.00400		mg/Kg		07/13/23 13:21	07/14/23 02:58	1
o-Xylene	**0.00200**		0.00200		mg/Kg		07/13/23 13:21	07/14/23 02:58	1
Xylenes, Total	**0.00613**		0.00400		mg/Kg		07/13/23 13:21	07/14/23 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:58*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/23 13:21*	*07/14/23 02:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00613**		0.00400		mg/Kg			07/14/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**991**		50.5		mg/Kg			07/18/23 09:40	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	<50.5	U	50.5		mg/Kg		07/14/23 08:40	07/17/23 15:43	1
Diesel Range Organics (Over C10-C28)	**991**		50.5		mg/Kg		07/14/23 08:40	07/17/23 15:43	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/14/23 08:40	07/17/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 15:43*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/14/23 08:40*	*07/17/23 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**794**		5.05		mg/Kg			07/13/23 23:01	1

Client Sample ID: SESW01 (B7,B6)

Lab Sample ID: 890-4933-47
Matrix: Solid

Date Collected: 07/11/23 09:37
Date Received: 07/12/23 10:20
Sample Depth: 4 - 7

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		07/13/23 13:21	07/14/23 03:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 03:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 03:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/13/23 13:21	07/14/23 03:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/13/23 13:21	07/14/23 03:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/13/23 13:21	07/14/23 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/13/23 13:21*	*07/14/23 03:19*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: SESW01 (B7,B6)
Date Collected: 07/11/23 09:37
Date Received: 07/12/23 10:20
Sample Depth: 4 - 7

Lab Sample ID: 890-4933-47
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/13/23 13:21*	*07/14/23 03:19*	*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			07/14/23 09:55	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			07/18/23 09:40	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		07/14/23 08:40	07/17/23 16:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:40	07/17/23 16:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:40	07/17/23 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*160*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 16:07*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/14/23 08:40*	*07/17/23 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.5**		5.03		mg/Kg			07/13/23 23:06	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-4933-1	A-4 FS	135 S1+	57 S1-										
890-4933-1 MS	A-4 FS	152 S1+	78										
890-4933-1 MSD	A-4 FS	161 S1+	84										
890-4933-2	A-5 FS	160 S1+	80										
890-4933-3	A-6 FS	122	89										
890-4933-4	B-1 FS	156 S1+	75										
890-4933-5	B-2 FS	141 S1+	63 S1-										
890-4933-6	B-3 FS	162 S1+	73										
890-4933-7	B-5 FS	165 S1+	77										
890-4933-8	B-6 FS	127	99										
890-4933-9	C-3 FS	193 S1+	90										
890-4933-10	C-4 FS	198 S1+	79										
890-4933-11	C-5 FS	164 S1+	109										
890-4933-12	C-6 FS	163 S1+	85										
890-4933-13	C-7 FS	160 S1+	78										
890-4933-14	C-1 FS	147 S1+	66 S1-										
890-4933-15	C-2 FS	179 S1+	109										
890-4933-16	B-4 FS	139 S1+	74										
890-4933-17	B-7 FS	155 S1+	70										
890-4933-18	D-4 FS	172 S1+	74										
890-4933-19	D-5 FS	163 S1+	83										
890-4933-20	D-6 FS	160 S1+	99										
890-4933-21	D-1 FS	91	78										
890-4933-21 MS	D-1 FS	116	102										
890-4933-21 MSD	D-1 FS	105	98										
890-4933-22	D-2 FS	91	72										
890-4933-23	D-3 FS	91	78										
890-4933-24	D-7 FS	90	70										
890-4933-25	E-1 FS	346 S1+	91										
890-4933-26	E-2 FS	355 S1+	97										
890-4933-27	E-3 FS	289 S1+	88										
890-4933-28	E-4 FS	53 S1-	96										
890-4933-29	E-5 FS	93	77										
890-4933-30	H-2 FS	51 S1-	94										
890-4933-31	H-3 FS	73	74										
890-4933-32	G-2 FS	331 S1+	98										
890-4933-33	G-3 FS	170 S1+	91										
890-4933-34	F-1 FS	115	103										
890-4933-35	F-2 FS	314 S1+	92										
890-4933-36	F-3 FS	227 S1+	101										
890-4933-37	F-4 FS	124	103										
890-4933-38	G-1 FS	309 S1+	96										
890-4933-39	G-4 FS	549 S1+	94										
890-4933-40	NSW01 (E1,D1,C1)	122	68 S1-										
890-4933-41	NESW01 (B1,B2)	87	92										
890-4933-41 MS	NESW01 (B1,B2)	101	93										
890-4933-41 MSD	NESW01 (B1,B2)	105	97										
890-4933-42	ESW01 (A4,A5,A6)	87	92										
890-4933-43	SESW01 (B6,B7)	86	94										

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4933-44	S SW01 (B7,C7,D7)	86	92
890-4933-45	SW SW01 (H3,G4,F4,E5)	95	92
890-4933-46	SSW01C (B7,C7,D7)	88	92
890-4933-47	SESW01 (B7,B6)	90	93
LCS 880-57610/1-A	Lab Control Sample	137 S1+	75
LCS 880-57611/1-A	Lab Control Sample	109	101
LCS 880-57613/1-A	Lab Control Sample	98	95
LCS 880-57823/1-A	Lab Control Sample	119	96
LCS 880-58150/1-A	Lab Control Sample	126	93
LCSD 880-57610/2-A	Lab Control Sample Dup	145 S1+	86
LCSD 880-57611/2-A	Lab Control Sample Dup	113	103
LCSD 880-57613/2-A	Lab Control Sample Dup	103	101
LCSD 880-57823/2-A	Lab Control Sample Dup	116	100
LCSD 880-58150/2-A	Lab Control Sample Dup	126	96
MB 880-57410/5-A	Method Blank	78	88
MB 880-57504/5-A	Method Blank	83	112
MB 880-57610/5-A	Method Blank	76	78
MB 880-57611/5-A	Method Blank	71	91
MB 880-57613/5-A	Method Blank	89	109
MB 880-57697/5-A	Method Blank	75	83
MB 880-57823/5-A	Method Blank	71	90
MB 880-58106/5-A	Method Blank	76	80
MB 880-58150/5-A	Method Blank	76	88

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)
890-4933-1	A-4 FS	150 S1+	129
890-4933-1 MS	A-4 FS	135 S1+	102
890-4933-1 MSD	A-4 FS	154 S1+	114
890-4933-2	A-5 FS	162 S1+	136 S1+
890-4933-3	A-6 FS	115	92
890-4933-4	B-1 FS	170 S1+	145 S1+
890-4933-5	B-2 FS	135 S1+	113
890-4933-6	B-3 FS	120	98
890-4933-7	B-5 FS	139 S1+	117
890-4933-8	B-6 FS	148 S1+	124
890-4933-9	C-3 FS	164 S1+	138 S1+
890-4933-10	C-4 FS	167 S1+	138 S1+
890-4933-11	C-5 FS	166 S1+	140 S1+
890-4933-12	C-6 FS	151 S1+	127
890-4933-13	C-7 FS	144 S1+	121
890-4933-14	C-1 FS	176 S1+	146 S1+
890-4933-15	C-2 FS	139 S1+	123

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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)										
890-4933-16	B-4 FS	127	103										
890-4933-17	B-7 FS	128	103										
890-4933-18	D-4 FS	134 S1+	107										
890-4933-19	D-5 FS	132 S1+	106										
890-4933-20	D-6 FS	126	99										
890-4933-21	D-1 FS	139 S1+	116										
890-4933-21 MS	D-1 FS	130	102										
890-4933-21 MSD	D-1 FS	131 S1+	13 S1-										
890-4933-22	D-2 FS	135 S1+	109										
890-4933-23	D-3 FS	130	100										
890-4933-24	D-7 FS	146 S1+	117										
890-4933-25	E-1 FS	325 S1+	403 S1+										
890-4933-26	E-2 FS	166 S1+	127										
890-4933-27	E-3 FS	251 S1+	254 S1+										
890-4933-28	E-4 FS	133 S1+	108										
890-4933-29	E-5 FS	262 S1+	215 S1+										
890-4933-30	H-2 FS	253 S1+	209 S1+										
890-4933-31	H-3 FS	251 S1+	208 S1+										
890-4933-32	G-2 FS	337 S1+	439 S1+										
890-4933-33	G-3 FS	343 S1+	386 S1+										
890-4933-34	F-1 FS	252 S1+	192 S1+										
890-4933-35	F-2 FS	476 S1+	365 S1+										
890-4933-36	F-3 FS	315 S1+	353 S1+										
890-4933-37	F-4 FS	143 S1+	112										
890-4933-38	G-1 FS	187 S1+	199 S1+										
890-4933-39	G-4 FS	458 S1+	436 S1+										
890-4933-40	NSW01 (E1,D1,C1)	128	101										
890-4933-41	NESW01 (B1,B2)	141 S1+	111										
890-4933-41 MS	NESW01 (B1,B2)	152 S1+	107										
890-4933-41 MSD	NESW01 (B1,B2)	179 S1+	126										
890-4933-42	ESW01 (A4,A5,A6)	140 S1+	109										
890-4933-43	SESW01 (B6,B7)	149 S1+	122										
890-4933-44	S SW01 (B7,C7,D7)	156 S1+	136 S1+										
890-4933-45	SW SW01 (H3,G4,F4,E5)	143 S1+	115										
890-4933-46	SSW01C (B7,C7,D7)	154 S1+	118										
890-4933-47	SESW01 (B7,B6)	160 S1+	131 S1+										
LCS 880-57656/2-A	Lab Control Sample	101	93										
LCS 880-57658/2-A	Lab Control Sample	98	91										
LCS 880-57659/2-A	Lab Control Sample	119	106										
LCSD 880-57656/3-A	Lab Control Sample Dup	102	91										
LCSD 880-57658/3-A	Lab Control Sample Dup	101	88										
LCSD 880-57659/3-A	Lab Control Sample Dup	136 S1+	113										
MB 880-57656/1-A	Method Blank	152 S1+	131 S1+										
MB 880-57658/1-A	Method Blank	142 S1+	125										
MB 880-57659/1-A	Method Blank	174 S1+	142 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57410/5-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/13/23 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*07/11/23 12:32*	*07/13/23 12:16*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/11/23 12:32*	*07/13/23 12:16*	*1*

Lab Sample ID: MB 880-57504/5-A
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/12/23 12:32	07/13/23 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/12/23 12:32	07/13/23 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/12/23 12:32	07/13/23 13:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/12/23 12:32	07/13/23 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/12/23 12:32	07/13/23 13:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/12/23 12:32	07/13/23 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*07/12/23 12:32*	*07/13/23 13:09*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/12/23 12:32*	*07/13/23 13:09*	*1*

Lab Sample ID: MB 880-57610/5-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 01:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:03	07/14/23 01:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/23 13:03	07/14/23 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/13/23 13:03*	*07/14/23 01:58*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/13/23 13:03*	*07/14/23 01:58*	*1*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: LCS 880-57610/1-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57610

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1032		mg/Kg		103	70 - 130		
Toluene			0.100	0.1056		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1091		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.2018		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*

Lab Sample ID: LCSD 880-57610/2-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57610

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1126		mg/Kg		113	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	2	35
Ethylbenzene			0.100	0.1134		mg/Kg		113	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2097		mg/Kg		105	70 - 130	4	35
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 890-4933-1 MS
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0994	0.1090		mg/Kg		110	70 - 130		
Toluene	<0.00200	U	0.0994	0.1071		mg/Kg		107	70 - 130		
Ethylbenzene	<0.00200	U	0.0994	0.1111		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2041		mg/Kg		103	70 - 130		
o-Xylene	<0.00200	U	0.0994	0.1052		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*

Lab Sample ID: 890-4933-1 MSD
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1108		mg/Kg		111	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.1090		mg/Kg		108	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.1163		mg/Kg		116	70 - 130	5	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: 890-4933-1 MSD
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2129		mg/Kg		106	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 880-57611/5-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/23 13:09	07/15/23 20:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:09	07/15/23 20:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/23 13:09	07/15/23 20:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:06*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/23 13:09*	*07/15/23 20:06*	*1*

Lab Sample ID: LCS 880-57611/1-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09205		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-57611/2-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	9	35
Toluene	0.100	0.09755		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2259		mg/Kg		113	70 - 130	4	35
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130	4	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4933-21 MS
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: D-1 FS
Prep Type: Total/NA
Prep Batch: 57611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0994	0.09775		mg/Kg		98	70 - 130
Toluene	<0.00200	U	0.0994	0.07399		mg/Kg		74	70 - 130
Ethylbenzene	<0.00200	U F1	0.0994	0.06604	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1477		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.0994	0.07714		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4933-21 MSD
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: D-1 FS
Prep Type: Total/NA
Prep Batch: 57611

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	0.09539		mg/Kg		96	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.07815		mg/Kg		79	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.0990	0.07006		mg/Kg		71	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1651		mg/Kg		83	70 - 130	11	35
o-Xylene	<0.00200	U	0.0990	0.08512		mg/Kg		86	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-57613/5-A
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 00:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 00:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 00:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/23 13:21	07/14/23 00:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/23 13:21	07/14/23 00:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/23 13:21	07/14/23 00:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/13/23 13:21	07/14/23 00:47	1
1,4-Difluorobenzene (Surr)	109		70 - 130	07/13/23 13:21	07/14/23 00:47	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: LCS 880-57613/1-A
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57613

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08691		mg/Kg		87	70 - 130		
Toluene			0.100	0.09570		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.07668		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene			0.200	0.1552		mg/Kg		78	70 - 130		
o-Xylene			0.100	0.07052		mg/Kg		71	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-57613/2-A
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57613

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	17	35
Toluene			0.100	0.1097		mg/Kg		110	70 - 130	14	35
Ethylbenzene			0.100	0.08593		mg/Kg		86	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1784		mg/Kg		89	70 - 130	14	35
o-Xylene			0.100	0.1002		mg/Kg		100	70 - 130	35	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-4933-41 MS
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: NESW01 (B1,B2)
Prep Type: Total/NA
Prep Batch: 57613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0994	0.09273		mg/Kg		93	70 - 130		
Toluene	<0.00202	U	0.0994	0.1010		mg/Kg		101	70 - 130		
Ethylbenzene	0.00283		0.0994	0.08904		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	0.0311		0.199	0.1983		mg/Kg		84	70 - 130		
o-Xylene	0.0110		0.0994	0.09177		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-4933-41 MSD
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: NESW01 (B1,B2)
Prep Type: Total/NA
Prep Batch: 57613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09083		mg/Kg		92	70 - 130	2	35
Toluene	<0.00202	U	0.0990	0.09515		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.00283		0.0990	0.07874		mg/Kg		77	70 - 130	12	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: 890-4933-41 MSD
Matrix: Solid
Analysis Batch: 57561

Client Sample ID: NESW01 (B1,B2)
Prep Type: Total/NA
Prep Batch: 57613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.0311		0.198	0.1789		mg/Kg		75	70 - 130	10	35
o-Xylene	0.0110		0.0990	0.09295		mg/Kg		83	70 - 130	1	35

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

Lab Sample ID: MB 880-57697/5-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/23 13:11	07/15/23 09:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/23 13:11	07/15/23 09:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/23 13:11	07/15/23 09:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/23 13:11	07/15/23 09:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/23 13:11	07/15/23 09:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/23 13:11	07/15/23 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*07/14/23 13:11*	*07/15/23 09:31*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/14/23 13:11*	*07/15/23 09:31*	*1*

Lab Sample ID: MB 880-57823/5-A
Matrix: Solid
Analysis Batch: 57772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/17/23 08:40	07/17/23 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/17/23 08:40	07/17/23 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/17/23 08:40	07/17/23 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/17/23 08:40	07/17/23 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/17/23 08:40	07/17/23 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/17/23 08:40	07/17/23 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*07/17/23 08:40*	*07/17/23 11:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/17/23 08:40*	*07/17/23 11:31*	*1*

Lab Sample ID: LCS 880-57823/1-A
Matrix: Solid
Analysis Batch: 57772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		111	70 - 130
Toluene	0.100	0.1029		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1209		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2593		mg/Kg		130	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: LCS 880-57823/1-A
Matrix: Solid
Analysis Batch: 57772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1282		mg/Kg		128	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-57823/2-A
Matrix: Solid
Analysis Batch: 57772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57823

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1053		mg/Kg		105	70 - 130	6	35
Toluene			0.100	0.09824		mg/Kg		98	70 - 130	5	35
Ethylbenzene			0.100	0.1145		mg/Kg		115	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2444		mg/Kg		122	70 - 130	6	35
o-Xylene			0.100	0.1205		mg/Kg		120	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-58106/5-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/23 10:15	07/21/23 00:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/20/23 10:15*	*07/21/23 00:04*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/20/23 10:15*	*07/21/23 00:04*	*1*

Lab Sample ID: MB 880-58150/5-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/23 13:48	07/21/23 10:38	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	07/20/23 13:48	07/21/23 10:38	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/20/23 13:48	07/21/23 10:38	1

Lab Sample ID: LCS 880-58150/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58088 — **Prep Batch: 58150**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1135		mg/Kg		114	70 - 130
Toluene	0.100	0.1072		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1290		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	0.200	0.2381		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1266		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-58150/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58088 — **Prep Batch: 58150**

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	7	35
Toluene	0.100	0.09939		mg/Kg		99	70 - 130	8	35
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2454		mg/Kg		123	70 - 130	3	35
o-Xylene	0.100	0.1233		mg/Kg		123	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-57656/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57994 — **Prep Batch: 57656**

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		07/14/23 08:27	07/19/23 10:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 10:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:27	07/19/23 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	07/14/23 08:27	07/19/23 10:55	1
o-Terphenyl	131	S1+	70 - 130	07/14/23 08:27	07/19/23 10:55	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: LCS 880-57656/2-A
Matrix: Solid
Analysis Batch: 57994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	910.6		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	878.6		mg/Kg		88	70 - 130		

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

Lab Sample ID: LCSD 880-57656/3-A
Matrix: Solid
Analysis Batch: 57994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	887.8		mg/Kg		89	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	856.9		mg/Kg		86	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-4933-1 MS
Matrix: Solid
Analysis Batch: 57994

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	938.7		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	1165		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 890-4933-1 MSD
Matrix: Solid
Analysis Batch: 57994

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57656

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	<50.1	U	1010	1070		mg/Kg		102	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	1302		mg/Kg		127	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*154*	*S1+*	*70 - 130*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: 890-4933-1 MSD
Matrix: Solid
Analysis Batch: 57994

Client Sample ID: A-4 FS
Prep Type: Total/NA
Prep Batch: 57656

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	114		70 - 130

Lab Sample ID: MB 880-57658/1-A
Matrix: Solid
Analysis Batch: 57888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57658

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		07/14/23 08:34	07/18/23 09:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:34	07/18/23 09:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:34	07/18/23 09:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	07/14/23 08:34	07/18/23 09:54	1
o-Terphenyl	125		70 - 130	07/14/23 08:34	07/18/23 09:54	1

Lab Sample ID: LCS 880-57658/2-A
Matrix: Solid
Analysis Batch: 57888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1027		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	859.5		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-57658/3-A
Matrix: Solid
Analysis Batch: 57888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1015		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	841.0		mg/Kg		84	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: 890-4933-21 MS
Matrix: Solid
Analysis Batch: 57888

Client Sample ID: D-1 FS
Prep Type: Total/NA
Prep Batch: 57658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	993	884.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	215		993	1067		mg/Kg		86	70 - 130

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

Lab Sample ID: 890-4933-21 MSD
Matrix: Solid
Analysis Batch: 57888

Client Sample ID: D-1 FS
Prep Type: Total/NA
Prep Batch: 57658

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	<49.8	U	993	890.3		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	215		993	1127		mg/Kg		92	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*13*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-57659/1-A
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57659

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		07/14/23 08:39	07/17/23 10:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/23 08:39	07/17/23 10:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/23 08:39	07/17/23 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*07/14/23 08:39*	*07/17/23 10:20*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*07/14/23 08:39*	*07/17/23 10:20*	*1*

Lab Sample ID: LCS 880-57659/2-A
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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

Lab Sample ID: LCS 880-57659/2-A
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57659

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-57659/3-A
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57659

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1073		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1104		mg/Kg		110	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-4933-41 MS
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: NESW01 (B1,B2)
Prep Type: Total/NA
Prep Batch: 57659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	971.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1212		mg/Kg		119	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	152	S1+	70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-4933-41 MSD
Matrix: Solid
Analysis Batch: 57762

Client Sample ID: NESW01 (B1,B2)
Prep Type: Total/NA
Prep Batch: 57659

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	<49.8	U	1010	1098		mg/Kg		106	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1409	F1	mg/Kg		138	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	179	S1+	70 - 130
o-Terphenyl	126		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57540/1-A
Matrix: Solid
Analysis Batch: 57622

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			07/13/23 15:59	1

Lab Sample ID: LCS 880-57540/2-A
Matrix: Solid
Analysis Batch: 57622

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-57540/3-A
Matrix: Solid
Analysis Batch: 57622

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	252.4		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-4933-1 MS
Matrix: Solid
Analysis Batch: 57622

Client Sample ID: A-4 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	64.6		249	323.3		mg/Kg		104	90 - 110

Lab Sample ID: 890-4933-1 MSD
Matrix: Solid
Analysis Batch: 57622

Client Sample ID: A-4 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.6		249	324.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-4933-11 MS
Matrix: Solid
Analysis Batch: 57622

Client Sample ID: C-5 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	329	F1	248	548.8	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-4933-11 MSD
Matrix: Solid
Analysis Batch: 57622

Client Sample ID: C-5 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	329	F1	248	542.3	F1	mg/Kg		86	90 - 110	1	20

Lab Sample ID: MB 880-57541/1-A
Matrix: Solid
Analysis Batch: 57623

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			07/13/23 18:59	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-57541/2-A
Matrix: Solid
Analysis Batch: 57623

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-57541/3-A
Matrix: Solid
Analysis Batch: 57623

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	251.9		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-4933-21 MS
Matrix: Solid
Analysis Batch: 57623

Client Sample ID: D-1 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	956	F1	250	1107	F1	mg/Kg		60	90 - 110		

Lab Sample ID: 890-4933-21 MSD
Matrix: Solid
Analysis Batch: 57623

Client Sample ID: D-1 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	956	F1	250	1114	F1	mg/Kg		63	90 - 110	1	20

Lab Sample ID: 890-4933-31 MS
Matrix: Solid
Analysis Batch: 57623

Client Sample ID: H-3 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	109		248	359.9		mg/Kg		101	90 - 110		

Lab Sample ID: 890-4933-31 MSD
Matrix: Solid
Analysis Batch: 57623

Client Sample ID: H-3 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	109		248	361.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-57542/1-A
Matrix: Solid
Analysis Batch: 57624

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			07/13/23 21:59	1

Lab Sample ID: LCS 880-57542/2-A
Matrix: Solid
Analysis Batch: 57624

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.6		mg/Kg		100	90 - 110		

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-57542/3-A
Matrix: Solid
Analysis Batch: 57624

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	252.5		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-4933-41 MS
Matrix: Solid
Analysis Batch: 57624

Client Sample ID: NESW01 (B1,B2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	143		249	397.1		mg/Kg		102	90 - 110

Lab Sample ID: 890-4933-41 MSD
Matrix: Solid
Analysis Batch: 57624

Client Sample ID: NESW01 (B1,B2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	143		249	398.4		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC VOA

Prep Batch: 57410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57410/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57504/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 57560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	8021B	57610
890-4933-2	A-5 FS	Total/NA	Solid	8021B	57610
890-4933-3	A-6 FS	Total/NA	Solid	8021B	57610
890-4933-4	B-1 FS	Total/NA	Solid	8021B	57610
890-4933-5	B-2 FS	Total/NA	Solid	8021B	57610
890-4933-6	B-3 FS	Total/NA	Solid	8021B	57610
890-4933-7	B-5 FS	Total/NA	Solid	8021B	57610
890-4933-8	B-6 FS	Total/NA	Solid	8021B	57610
890-4933-9	C-3 FS	Total/NA	Solid	8021B	57610
890-4933-10	C-4 FS	Total/NA	Solid	8021B	57610
890-4933-11	C-5 FS	Total/NA	Solid	8021B	57610
890-4933-12	C-6 FS	Total/NA	Solid	8021B	57610
890-4933-13	C-7 FS	Total/NA	Solid	8021B	57610
890-4933-14	C-1 FS	Total/NA	Solid	8021B	57610
890-4933-15	C-2 FS	Total/NA	Solid	8021B	57610
890-4933-16	B-4 FS	Total/NA	Solid	8021B	57610
890-4933-17	B-7 FS	Total/NA	Solid	8021B	57610
890-4933-18	D-4 FS	Total/NA	Solid	8021B	57610
890-4933-19	D-5 FS	Total/NA	Solid	8021B	57610
890-4933-20	D-6 FS	Total/NA	Solid	8021B	57610
MB 880-57410/5-A	Method Blank	Total/NA	Solid	8021B	57410
MB 880-57610/5-A	Method Blank	Total/NA	Solid	8021B	57610
LCS 880-57610/1-A	Lab Control Sample	Total/NA	Solid	8021B	57610
LCSD 880-57610/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57610
890-4933-1 MS	A-4 FS	Total/NA	Solid	8021B	57610
890-4933-1 MSD	A-4 FS	Total/NA	Solid	8021B	57610

Analysis Batch: 57561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	8021B	57613
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	8021B	57613
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	8021B	57613
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	8021B	57613
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	8021B	57613
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	8021B	57613
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	8021B	57613
MB 880-57504/5-A	Method Blank	Total/NA	Solid	8021B	57504
MB 880-57613/5-A	Method Blank	Total/NA	Solid	8021B	57613
LCS 880-57613/1-A	Lab Control Sample	Total/NA	Solid	8021B	57613
LCSD 880-57613/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57613
890-4933-41 MS	NESW01 (B1,B2)	Total/NA	Solid	8021B	57613
890-4933-41 MSD	NESW01 (B1,B2)	Total/NA	Solid	8021B	57613

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC VOA

Prep Batch: 57610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	5035	
890-4933-2	A-5 FS	Total/NA	Solid	5035	
890-4933-3	A-6 FS	Total/NA	Solid	5035	
890-4933-4	B-1 FS	Total/NA	Solid	5035	
890-4933-5	B-2 FS	Total/NA	Solid	5035	
890-4933-6	B-3 FS	Total/NA	Solid	5035	
890-4933-7	B-5 FS	Total/NA	Solid	5035	
890-4933-8	B-6 FS	Total/NA	Solid	5035	
890-4933-9	C-3 FS	Total/NA	Solid	5035	
890-4933-10	C-4 FS	Total/NA	Solid	5035	
890-4933-11	C-5 FS	Total/NA	Solid	5035	
890-4933-12	C-6 FS	Total/NA	Solid	5035	
890-4933-13	C-7 FS	Total/NA	Solid	5035	
890-4933-14	C-1 FS	Total/NA	Solid	5035	
890-4933-15	C-2 FS	Total/NA	Solid	5035	
890-4933-16	B-4 FS	Total/NA	Solid	5035	
890-4933-17	B-7 FS	Total/NA	Solid	5035	
890-4933-18	D-4 FS	Total/NA	Solid	5035	
890-4933-19	D-5 FS	Total/NA	Solid	5035	
890-4933-20	D-6 FS	Total/NA	Solid	5035	
MB 880-57610/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57610/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57610/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4933-1 MS	A-4 FS	Total/NA	Solid	5035	
890-4933-1 MSD	A-4 FS	Total/NA	Solid	5035	

Prep Batch: 57611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Total/NA	Solid	5035	
890-4933-22	D-2 FS	Total/NA	Solid	5035	
890-4933-23	D-3 FS	Total/NA	Solid	5035	
890-4933-24	D-7 FS	Total/NA	Solid	5035	
890-4933-25	E-1 FS	Total/NA	Solid	5035	
890-4933-26	E-2 FS	Total/NA	Solid	5035	
890-4933-27	E-3 FS	Total/NA	Solid	5035	
890-4933-28	E-4 FS	Total/NA	Solid	5035	
890-4933-29	E-5 FS	Total/NA	Solid	5035	
890-4933-30	H-2 FS	Total/NA	Solid	5035	
890-4933-31	H-3 FS	Total/NA	Solid	5035	
890-4933-32	G-2 FS	Total/NA	Solid	5035	
890-4933-33	G-3 FS	Total/NA	Solid	5035	
890-4933-34	F-1 FS	Total/NA	Solid	5035	
890-4933-35	F-2 FS	Total/NA	Solid	5035	
890-4933-36	F-3 FS	Total/NA	Solid	5035	
890-4933-37	F-4 FS	Total/NA	Solid	5035	
890-4933-38	G-1 FS	Total/NA	Solid	5035	
890-4933-39	G-4 FS	Total/NA	Solid	5035	
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	5035	
MB 880-57611/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57611/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57611/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC VOA (Continued)

Prep Batch: 57611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21 MS	D-1 FS	Total/NA	Solid	5035	
890-4933-21 MSD	D-1 FS	Total/NA	Solid	5035	

Prep Batch: 57613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	5035	
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	5035	
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	5035	
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	5035	
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	5035	
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	5035	
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	5035	
MB 880-57613/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57613/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57613/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4933-41 MS	NESW01 (B1,B2)	Total/NA	Solid	5035	
890-4933-41 MSD	NESW01 (B1,B2)	Total/NA	Solid	5035	

Analysis Batch: 57653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Total/NA	Solid	8021B	57611
890-4933-22	D-2 FS	Total/NA	Solid	8021B	57611
890-4933-23	D-3 FS	Total/NA	Solid	8021B	57611
890-4933-24	D-7 FS	Total/NA	Solid	8021B	57611
890-4933-25	E-1 FS	Total/NA	Solid	8021B	57611
890-4933-26	E-2 FS	Total/NA	Solid	8021B	57611
890-4933-27	E-3 FS	Total/NA	Solid	8021B	57611
890-4933-28	E-4 FS	Total/NA	Solid	8021B	57611
890-4933-29	E-5 FS	Total/NA	Solid	8021B	57611
890-4933-30	H-2 FS	Total/NA	Solid	8021B	57611
890-4933-31	H-3 FS	Total/NA	Solid	8021B	57611
890-4933-32	G-2 FS	Total/NA	Solid	8021B	57611
890-4933-33	G-3 FS	Total/NA	Solid	8021B	57611
890-4933-34	F-1 FS	Total/NA	Solid	8021B	57611
890-4933-35	F-2 FS	Total/NA	Solid	8021B	57611
890-4933-36	F-3 FS	Total/NA	Solid	8021B	57611
890-4933-37	F-4 FS	Total/NA	Solid	8021B	57611
890-4933-38	G-1 FS	Total/NA	Solid	8021B	57611
890-4933-39	G-4 FS	Total/NA	Solid	8021B	57611
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	8021B	57611
MB 880-57611/5-A	Method Blank	Total/NA	Solid	8021B	57611
MB 880-57697/5-A	Method Blank	Total/NA	Solid	8021B	57697
LCS 880-57611/1-A	Lab Control Sample	Total/NA	Solid	8021B	57611
LCSD 880-57611/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57611
890-4933-21 MS	D-1 FS	Total/NA	Solid	8021B	57611
890-4933-21 MSD	D-1 FS	Total/NA	Solid	8021B	57611

Analysis Batch: 57681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	Total BTEX	
890-4933-2	A-5 FS	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC VOA (Continued)

Analysis Batch: 57681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-3	A-6 FS	Total/NA	Solid	Total BTEX	
890-4933-4	B-1 FS	Total/NA	Solid	Total BTEX	
890-4933-5	B-2 FS	Total/NA	Solid	Total BTEX	
890-4933-6	B-3 FS	Total/NA	Solid	Total BTEX	
890-4933-7	B-5 FS	Total/NA	Solid	Total BTEX	
890-4933-8	B-6 FS	Total/NA	Solid	Total BTEX	
890-4933-9	C-3 FS	Total/NA	Solid	Total BTEX	
890-4933-10	C-4 FS	Total/NA	Solid	Total BTEX	
890-4933-11	C-5 FS	Total/NA	Solid	Total BTEX	
890-4933-12	C-6 FS	Total/NA	Solid	Total BTEX	
890-4933-13	C-7 FS	Total/NA	Solid	Total BTEX	
890-4933-14	C-1 FS	Total/NA	Solid	Total BTEX	
890-4933-15	C-2 FS	Total/NA	Solid	Total BTEX	
890-4933-16	B-4 FS	Total/NA	Solid	Total BTEX	
890-4933-17	B-7 FS	Total/NA	Solid	Total BTEX	
890-4933-18	D-4 FS	Total/NA	Solid	Total BTEX	
890-4933-19	D-5 FS	Total/NA	Solid	Total BTEX	
890-4933-20	D-6 FS	Total/NA	Solid	Total BTEX	
890-4933-21	D-1 FS	Total/NA	Solid	Total BTEX	
890-4933-22	D-2 FS	Total/NA	Solid	Total BTEX	
890-4933-23	D-3 FS	Total/NA	Solid	Total BTEX	
890-4933-24	D-7 FS	Total/NA	Solid	Total BTEX	
890-4933-25	E-1 FS	Total/NA	Solid	Total BTEX	
890-4933-26	E-2 FS	Total/NA	Solid	Total BTEX	
890-4933-27	E-3 FS	Total/NA	Solid	Total BTEX	
890-4933-28	E-4 FS	Total/NA	Solid	Total BTEX	
890-4933-29	E-5 FS	Total/NA	Solid	Total BTEX	
890-4933-30	H-2 FS	Total/NA	Solid	Total BTEX	
890-4933-31	H-3 FS	Total/NA	Solid	Total BTEX	
890-4933-32	G-2 FS	Total/NA	Solid	Total BTEX	
890-4933-33	G-3 FS	Total/NA	Solid	Total BTEX	
890-4933-34	F-1 FS	Total/NA	Solid	Total BTEX	
890-4933-35	F-2 FS	Total/NA	Solid	Total BTEX	
890-4933-36	F-3 FS	Total/NA	Solid	Total BTEX	
890-4933-37	F-4 FS	Total/NA	Solid	Total BTEX	
890-4933-38	G-1 FS	Total/NA	Solid	Total BTEX	
890-4933-39	G-4 FS	Total/NA	Solid	Total BTEX	
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	Total BTEX	
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	Total BTEX	
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	Total BTEX	
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	Total BTEX	
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	Total BTEX	
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	Total BTEX	
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	Total BTEX	
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	Total BTEX	

Prep Batch: 57697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57697/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC VOA

Analysis Batch: 57772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-26	E-2 FS	Total/NA	Solid	8021B	57823
890-4933-32	G-2 FS	Total/NA	Solid	8021B	57823
890-4933-39	G-4 FS	Total/NA	Solid	8021B	57823
MB 880-57823/5-A	Method Blank	Total/NA	Solid	8021B	57823
LCS 880-57823/1-A	Lab Control Sample	Total/NA	Solid	8021B	57823
LCSD 880-57823/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57823

Prep Batch: 57823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-26	E-2 FS	Total/NA	Solid	5035	
890-4933-32	G-2 FS	Total/NA	Solid	5035	
890-4933-39	G-4 FS	Total/NA	Solid	5035	
MB 880-57823/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57823/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57823/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 58039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-35	F-2 FS	Total/NA	Solid	5035	

Analysis Batch: 58088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-35	F-2 FS	Total/NA	Solid	8021B	58039
MB 880-58106/5-A	Method Blank	Total/NA	Solid	8021B	58106
MB 880-58150/5-A	Method Blank	Total/NA	Solid	8021B	58150
LCS 880-58150/1-A	Lab Control Sample	Total/NA	Solid	8021B	58150
LCSD 880-58150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58150

Prep Batch: 58106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58106/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 57656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-2	A-5 FS	Total/NA	Solid	8015NM Prep	
890-4933-3	A-6 FS	Total/NA	Solid	8015NM Prep	
890-4933-4	B-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-5	B-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-6	B-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-7	B-5 FS	Total/NA	Solid	8015NM Prep	
890-4933-8	B-6 FS	Total/NA	Solid	8015NM Prep	
890-4933-9	C-3 FS	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC Semi VOA (Continued)

Prep Batch: 57656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-10	C-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-11	C-5 FS	Total/NA	Solid	8015NM Prep	
890-4933-12	C-6 FS	Total/NA	Solid	8015NM Prep	
890-4933-13	C-7 FS	Total/NA	Solid	8015NM Prep	
890-4933-14	C-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-15	C-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-16	B-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-17	B-7 FS	Total/NA	Solid	8015NM Prep	
890-4933-18	D-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-19	D-5 FS	Total/NA	Solid	8015NM Prep	
890-4933-20	D-6 FS	Total/NA	Solid	8015NM Prep	
MB 880-57656/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57656/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4933-1 MS	A-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-1 MSD	A-4 FS	Total/NA	Solid	8015NM Prep	

Prep Batch: 57658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-22	D-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-23	D-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-24	D-7 FS	Total/NA	Solid	8015NM Prep	
890-4933-25	E-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-26	E-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-27	E-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-28	E-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-29	E-5 FS	Total/NA	Solid	8015NM Prep	
890-4933-30	H-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-31	H-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-32	G-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-33	G-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-34	F-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-35	F-2 FS	Total/NA	Solid	8015NM Prep	
890-4933-36	F-3 FS	Total/NA	Solid	8015NM Prep	
890-4933-37	F-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-38	G-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-39	G-4 FS	Total/NA	Solid	8015NM Prep	
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	8015NM Prep	
MB 880-57658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4933-21 MS	D-1 FS	Total/NA	Solid	8015NM Prep	
890-4933-21 MSD	D-1 FS	Total/NA	Solid	8015NM Prep	

Prep Batch: 57659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	8015NM Prep	
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	8015NM Prep	
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	8015NM Prep	
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC Semi VOA (Continued)

Prep Batch: 57659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	8015NM Prep	
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	8015NM Prep	
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	8015NM Prep	
MB 880-57659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4933-41 MS	NESW01 (B1,B2)	Total/NA	Solid	8015NM Prep	
890-4933-41 MSD	NESW01 (B1,B2)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	8015B NM	57659
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	8015B NM	57659
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	8015B NM	57659
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	8015B NM	57659
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	8015B NM	57659
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	8015B NM	57659
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	8015B NM	57659
MB 880-57659/1-A	Method Blank	Total/NA	Solid	8015B NM	57659
LCS 880-57659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57659
LCSD 880-57659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57659
890-4933-41 MS	NESW01 (B1,B2)	Total/NA	Solid	8015B NM	57659
890-4933-41 MSD	NESW01 (B1,B2)	Total/NA	Solid	8015B NM	57659

Analysis Batch: 57888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Total/NA	Solid	8015B NM	57658
890-4933-22	D-2 FS	Total/NA	Solid	8015B NM	57658
890-4933-23	D-3 FS	Total/NA	Solid	8015B NM	57658
890-4933-24	D-7 FS	Total/NA	Solid	8015B NM	57658
890-4933-25	E-1 FS	Total/NA	Solid	8015B NM	57658
890-4933-26	E-2 FS	Total/NA	Solid	8015B NM	57658
890-4933-27	E-3 FS	Total/NA	Solid	8015B NM	57658
890-4933-28	E-4 FS	Total/NA	Solid	8015B NM	57658
890-4933-29	E-5 FS	Total/NA	Solid	8015B NM	57658
890-4933-30	H-2 FS	Total/NA	Solid	8015B NM	57658
890-4933-31	H-3 FS	Total/NA	Solid	8015B NM	57658
890-4933-32	G-2 FS	Total/NA	Solid	8015B NM	57658
890-4933-33	G-3 FS	Total/NA	Solid	8015B NM	57658
890-4933-34	F-1 FS	Total/NA	Solid	8015B NM	57658
890-4933-35	F-2 FS	Total/NA	Solid	8015B NM	57658
890-4933-36	F-3 FS	Total/NA	Solid	8015B NM	57658
890-4933-37	F-4 FS	Total/NA	Solid	8015B NM	57658
890-4933-38	G-1 FS	Total/NA	Solid	8015B NM	57658
890-4933-39	G-4 FS	Total/NA	Solid	8015B NM	57658
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	8015B NM	57658
MB 880-57658/1-A	Method Blank	Total/NA	Solid	8015B NM	57658
LCS 880-57658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57658
LCSD 880-57658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57658
890-4933-21 MS	D-1 FS	Total/NA	Solid	8015B NM	57658
890-4933-21 MSD	D-1 FS	Total/NA	Solid	8015B NM	57658

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC Semi VOA

Analysis Batch: 57926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	8015 NM	
890-4933-2	A-5 FS	Total/NA	Solid	8015 NM	
890-4933-3	A-6 FS	Total/NA	Solid	8015 NM	
890-4933-4	B-1 FS	Total/NA	Solid	8015 NM	
890-4933-5	B-2 FS	Total/NA	Solid	8015 NM	
890-4933-6	B-3 FS	Total/NA	Solid	8015 NM	
890-4933-7	B-5 FS	Total/NA	Solid	8015 NM	
890-4933-8	B-6 FS	Total/NA	Solid	8015 NM	
890-4933-9	C-3 FS	Total/NA	Solid	8015 NM	
890-4933-10	C-4 FS	Total/NA	Solid	8015 NM	
890-4933-11	C-5 FS	Total/NA	Solid	8015 NM	
890-4933-12	C-6 FS	Total/NA	Solid	8015 NM	
890-4933-13	C-7 FS	Total/NA	Solid	8015 NM	
890-4933-14	C-1 FS	Total/NA	Solid	8015 NM	
890-4933-15	C-2 FS	Total/NA	Solid	8015 NM	
890-4933-16	B-4 FS	Total/NA	Solid	8015 NM	
890-4933-17	B-7 FS	Total/NA	Solid	8015 NM	
890-4933-18	D-4 FS	Total/NA	Solid	8015 NM	
890-4933-19	D-5 FS	Total/NA	Solid	8015 NM	
890-4933-20	D-6 FS	Total/NA	Solid	8015 NM	
890-4933-21	D-1 FS	Total/NA	Solid	8015 NM	
890-4933-22	D-2 FS	Total/NA	Solid	8015 NM	
890-4933-23	D-3 FS	Total/NA	Solid	8015 NM	
890-4933-24	D-7 FS	Total/NA	Solid	8015 NM	
890-4933-25	E-1 FS	Total/NA	Solid	8015 NM	
890-4933-26	E-2 FS	Total/NA	Solid	8015 NM	
890-4933-27	E-3 FS	Total/NA	Solid	8015 NM	
890-4933-28	E-4 FS	Total/NA	Solid	8015 NM	
890-4933-29	E-5 FS	Total/NA	Solid	8015 NM	
890-4933-30	H-2 FS	Total/NA	Solid	8015 NM	
890-4933-31	H-3 FS	Total/NA	Solid	8015 NM	
890-4933-32	G-2 FS	Total/NA	Solid	8015 NM	
890-4933-33	G-3 FS	Total/NA	Solid	8015 NM	
890-4933-34	F-1 FS	Total/NA	Solid	8015 NM	
890-4933-35	F-2 FS	Total/NA	Solid	8015 NM	
890-4933-36	F-3 FS	Total/NA	Solid	8015 NM	
890-4933-37	F-4 FS	Total/NA	Solid	8015 NM	
890-4933-38	G-1 FS	Total/NA	Solid	8015 NM	
890-4933-39	G-4 FS	Total/NA	Solid	8015 NM	
890-4933-40	NSW01 (E1,D1,C1)	Total/NA	Solid	8015 NM	
890-4933-41	NESW01 (B1,B2)	Total/NA	Solid	8015 NM	
890-4933-42	ESW01 (A4,A5,A6)	Total/NA	Solid	8015 NM	
890-4933-43	SESW01 (B6,B7)	Total/NA	Solid	8015 NM	
890-4933-44	S SW01 (B7,C7,D7)	Total/NA	Solid	8015 NM	
890-4933-45	SW SW01 (H3,G4,F4,E5)	Total/NA	Solid	8015 NM	
890-4933-46	SSW01C (B7,C7,D7)	Total/NA	Solid	8015 NM	
890-4933-47	SESW01 (B7,B6)	Total/NA	Solid	8015 NM	

Analysis Batch: 57994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Total/NA	Solid	8015B NM	57656

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

GC Semi VOA (Continued)

Analysis Batch: 57994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-2	A-5 FS	Total/NA	Solid	8015B NM	57656
890-4933-3	A-6 FS	Total/NA	Solid	8015B NM	57656
890-4933-4	B-1 FS	Total/NA	Solid	8015B NM	57656
890-4933-5	B-2 FS	Total/NA	Solid	8015B NM	57656
890-4933-6	B-3 FS	Total/NA	Solid	8015B NM	57656
890-4933-7	B-5 FS	Total/NA	Solid	8015B NM	57656
890-4933-8	B-6 FS	Total/NA	Solid	8015B NM	57656
890-4933-9	C-3 FS	Total/NA	Solid	8015B NM	57656
890-4933-10	C-4 FS	Total/NA	Solid	8015B NM	57656
890-4933-11	C-5 FS	Total/NA	Solid	8015B NM	57656
890-4933-12	C-6 FS	Total/NA	Solid	8015B NM	57656
890-4933-13	C-7 FS	Total/NA	Solid	8015B NM	57656
890-4933-14	C-1 FS	Total/NA	Solid	8015B NM	57656
890-4933-15	C-2 FS	Total/NA	Solid	8015B NM	57656
890-4933-16	B-4 FS	Total/NA	Solid	8015B NM	57656
890-4933-17	B-7 FS	Total/NA	Solid	8015B NM	57656
890-4933-18	D-4 FS	Total/NA	Solid	8015B NM	57656
890-4933-19	D-5 FS	Total/NA	Solid	8015B NM	57656
890-4933-20	D-6 FS	Total/NA	Solid	8015B NM	57656
MB 880-57656/1-A	Method Blank	Total/NA	Solid	8015B NM	57656
LCS 880-57656/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57656
LCSD 880-57656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57656
890-4933-1 MS	A-4 FS	Total/NA	Solid	8015B NM	57656
890-4933-1 MSD	A-4 FS	Total/NA	Solid	8015B NM	57656

HPLC/IC

Leach Batch: 57540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Soluble	Solid	DI Leach	
890-4933-2	A-5 FS	Soluble	Solid	DI Leach	
890-4933-3	A-6 FS	Soluble	Solid	DI Leach	
890-4933-4	B-1 FS	Soluble	Solid	DI Leach	
890-4933-5	B-2 FS	Soluble	Solid	DI Leach	
890-4933-6	B-3 FS	Soluble	Solid	DI Leach	
890-4933-7	B-5 FS	Soluble	Solid	DI Leach	
890-4933-8	B-6 FS	Soluble	Solid	DI Leach	
890-4933-9	C-3 FS	Soluble	Solid	DI Leach	
890-4933-10	C-4 FS	Soluble	Solid	DI Leach	
890-4933-11	C-5 FS	Soluble	Solid	DI Leach	
890-4933-12	C-6 FS	Soluble	Solid	DI Leach	
890-4933-13	C-7 FS	Soluble	Solid	DI Leach	
890-4933-14	C-1 FS	Soluble	Solid	DI Leach	
890-4933-15	C-2 FS	Soluble	Solid	DI Leach	
890-4933-16	B-4 FS	Soluble	Solid	DI Leach	
890-4933-17	B-7 FS	Soluble	Solid	DI Leach	
890-4933-18	D-4 FS	Soluble	Solid	DI Leach	
890-4933-19	D-5 FS	Soluble	Solid	DI Leach	
890-4933-20	D-6 FS	Soluble	Solid	DI Leach	
MB 880-57540/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57540/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

HPLC/IC (Continued)

Leach Batch: 57540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-57540/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4933-1 MS	A-4 FS	Soluble	Solid	DI Leach	
890-4933-1 MSD	A-4 FS	Soluble	Solid	DI Leach	
890-4933-11 MS	C-5 FS	Soluble	Solid	DI Leach	
890-4933-11 MSD	C-5 FS	Soluble	Solid	DI Leach	

Leach Batch: 57541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Soluble	Solid	DI Leach	
890-4933-22	D-2 FS	Soluble	Solid	DI Leach	
890-4933-23	D-3 FS	Soluble	Solid	DI Leach	
890-4933-24	D-7 FS	Soluble	Solid	DI Leach	
890-4933-25	E-1 FS	Soluble	Solid	DI Leach	
890-4933-26	E-2 FS	Soluble	Solid	DI Leach	
890-4933-27	E-3 FS	Soluble	Solid	DI Leach	
890-4933-28	E-4 FS	Soluble	Solid	DI Leach	
890-4933-29	E-5 FS	Soluble	Solid	DI Leach	
890-4933-30	H-2 FS	Soluble	Solid	DI Leach	
890-4933-31	H-3 FS	Soluble	Solid	DI Leach	
890-4933-32	G-2 FS	Soluble	Solid	DI Leach	
890-4933-33	G-3 FS	Soluble	Solid	DI Leach	
890-4933-34	F-1 FS	Soluble	Solid	DI Leach	
890-4933-35	F-2 FS	Soluble	Solid	DI Leach	
890-4933-36	F-3 FS	Soluble	Solid	DI Leach	
890-4933-37	F-4 FS	Soluble	Solid	DI Leach	
890-4933-38	G-1 FS	Soluble	Solid	DI Leach	
890-4933-39	G-4 FS	Soluble	Solid	DI Leach	
890-4933-40	NSW01 (E1,D1,C1)	Soluble	Solid	DI Leach	
MB 880-57541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4933-21 MS	D-1 FS	Soluble	Solid	DI Leach	
890-4933-21 MSD	D-1 FS	Soluble	Solid	DI Leach	
890-4933-31 MS	H-3 FS	Soluble	Solid	DI Leach	
890-4933-31 MSD	H-3 FS	Soluble	Solid	DI Leach	

Leach Batch: 57542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Soluble	Solid	DI Leach	
890-4933-42	ESW01 (A4,A5,A6)	Soluble	Solid	DI Leach	
890-4933-43	SESW01 (B6,B7)	Soluble	Solid	DI Leach	
890-4933-44	S SW01 (B7,C7,D7)	Soluble	Solid	DI Leach	
890-4933-45	SW SW01 (H3,G4,F4,E5)	Soluble	Solid	DI Leach	
890-4933-46	SSW01C (B7,C7,D7)	Soluble	Solid	DI Leach	
890-4933-47	SESW01 (B7,B6)	Soluble	Solid	DI Leach	
MB 880-57542/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4933-41 MS	NESW01 (B1,B2)	Soluble	Solid	DI Leach	
890-4933-41 MSD	NESW01 (B1,B2)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

HPLC/IC

Analysis Batch: 57622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-1	A-4 FS	Soluble	Solid	300.0	57540
890-4933-2	A-5 FS	Soluble	Solid	300.0	57540
890-4933-3	A-6 FS	Soluble	Solid	300.0	57540
890-4933-4	B-1 FS	Soluble	Solid	300.0	57540
890-4933-5	B-2 FS	Soluble	Solid	300.0	57540
890-4933-6	B-3 FS	Soluble	Solid	300.0	57540
890-4933-7	B-5 FS	Soluble	Solid	300.0	57540
890-4933-8	B-6 FS	Soluble	Solid	300.0	57540
890-4933-9	C-3 FS	Soluble	Solid	300.0	57540
890-4933-10	C-4 FS	Soluble	Solid	300.0	57540
890-4933-11	C-5 FS	Soluble	Solid	300.0	57540
890-4933-12	C-6 FS	Soluble	Solid	300.0	57540
890-4933-13	C-7 FS	Soluble	Solid	300.0	57540
890-4933-14	C-1 FS	Soluble	Solid	300.0	57540
890-4933-15	C-2 FS	Soluble	Solid	300.0	57540
890-4933-16	B-4 FS	Soluble	Solid	300.0	57540
890-4933-17	B-7 FS	Soluble	Solid	300.0	57540
890-4933-18	D-4 FS	Soluble	Solid	300.0	57540
890-4933-19	D-5 FS	Soluble	Solid	300.0	57540
890-4933-20	D-6 FS	Soluble	Solid	300.0	57540
MB 880-57540/1-A	Method Blank	Soluble	Solid	300.0	57540
LCS 880-57540/2-A	Lab Control Sample	Soluble	Solid	300.0	57540
LCSD 880-57540/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57540
890-4933-1 MS	A-4 FS	Soluble	Solid	300.0	57540
890-4933-1 MSD	A-4 FS	Soluble	Solid	300.0	57540
890-4933-11 MS	C-5 FS	Soluble	Solid	300.0	57540
890-4933-11 MSD	C-5 FS	Soluble	Solid	300.0	57540

Analysis Batch: 57623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-21	D-1 FS	Soluble	Solid	300.0	57541
890-4933-22	D-2 FS	Soluble	Solid	300.0	57541
890-4933-23	D-3 FS	Soluble	Solid	300.0	57541
890-4933-24	D-7 FS	Soluble	Solid	300.0	57541
890-4933-25	E-1 FS	Soluble	Solid	300.0	57541
890-4933-26	E-2 FS	Soluble	Solid	300.0	57541
890-4933-27	E-3 FS	Soluble	Solid	300.0	57541
890-4933-28	E-4 FS	Soluble	Solid	300.0	57541
890-4933-29	E-5 FS	Soluble	Solid	300.0	57541
890-4933-30	H-2 FS	Soluble	Solid	300.0	57541
890-4933-31	H-3 FS	Soluble	Solid	300.0	57541
890-4933-32	G-2 FS	Soluble	Solid	300.0	57541
890-4933-33	G-3 FS	Soluble	Solid	300.0	57541
890-4933-34	F-1 FS	Soluble	Solid	300.0	57541
890-4933-35	F-2 FS	Soluble	Solid	300.0	57541
890-4933-36	F-3 FS	Soluble	Solid	300.0	57541
890-4933-37	F-4 FS	Soluble	Solid	300.0	57541
890-4933-38	G-1 FS	Soluble	Solid	300.0	57541
890-4933-39	G-4 FS	Soluble	Solid	300.0	57541
890-4933-40	NSW01 (E1,D1,C1)	Soluble	Solid	300.0	57541
MB 880-57541/1-A	Method Blank	Soluble	Solid	300.0	57541

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

HPLC/IC (Continued)

Analysis Batch: 57623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-57541/2-A	Lab Control Sample	Soluble	Solid	300.0	57541
LCSD 880-57541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57541
890-4933-21 MS	D-1 FS	Soluble	Solid	300.0	57541
890-4933-21 MSD	D-1 FS	Soluble	Solid	300.0	57541
890-4933-31 MS	H-3 FS	Soluble	Solid	300.0	57541
890-4933-31 MSD	H-3 FS	Soluble	Solid	300.0	57541

Analysis Batch: 57624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4933-41	NESW01 (B1,B2)	Soluble	Solid	300.0	57542
890-4933-42	ESW01 (A4,A5,A6)	Soluble	Solid	300.0	57542
890-4933-43	SESW01 (B6,B7)	Soluble	Solid	300.0	57542
890-4933-44	S SW01 (B7,C7,D7)	Soluble	Solid	300.0	57542
890-4933-45	SW SW01 (H3,G4,F4,E5)	Soluble	Solid	300.0	57542
890-4933-46	SSW01C (B7,C7,D7)	Soluble	Solid	300.0	57542
890-4933-47	SESW01 (B7,B6)	Soluble	Solid	300.0	57542
MB 880-57542/1-A	Method Blank	Soluble	Solid	300.0	57542
LCS 880-57542/2-A	Lab Control Sample	Soluble	Solid	300.0	57542
LCSD 880-57542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57542
890-4933-41 MS	NESW01 (B1,B2)	Soluble	Solid	300.0	57542
890-4933-41 MSD	NESW01 (B1,B2)	Soluble	Solid	300.0	57542

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: A-4 FS
Date Collected: 07/11/23 10:15
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-1
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			4.99 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 02:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 13:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 16:14	CH	EET MID

Client Sample ID: A-5 FS
Date Collected: 07/11/23 10:18
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-2
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			4.96 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 02:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 16:29	CH	EET MID

Client Sample ID: A-6 FS
Date Collected: 07/11/23 10:21
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-3
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			5.01 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 03:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 16:35	CH	EET MID

Client Sample ID: B-1 FS
Date Collected: 07/10/23 11:26
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-4
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			5.00 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 03:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-1 FS

Date Collected: 07/10/23 11:26
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-4

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			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 16:40	CH	EET MID

Client Sample ID: B-2 FS

Date Collected: 07/10/23 11:28
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-5

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			5.05 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 04:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 16:45	CH	EET MID

Client Sample ID: B-3 FS

Date Collected: 07/10/23 11:31
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-6

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			4.97 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:00	CH	EET MID

Client Sample ID: B-5 FS

Date Collected: 07/10/23 11:35
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-7

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			4.96 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 05:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 16:43	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-5 FS

Date Collected: 07/10/23 11:35
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:05	CH	EET MID

Client Sample ID: B-6 FS

Date Collected: 07/10/23 11:38
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-8

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			4.99 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 05:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:11	CH	EET MID

Client Sample ID: C-3 FS

Date Collected: 07/10/23 11:51
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-9

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			5.03 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 05:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:16	CH	EET MID

Client Sample ID: C-4 FS

Date Collected: 07/10/23 11:53
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-10

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			5.05 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 06:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 17:50	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:21	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-5 FS
Date Collected: 07/10/23 11:56
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-11
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			5.04 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 08:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 18:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:26	CH	EET MID

Client Sample ID: C-6 FS
Date Collected: 07/10/23 11:59
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-12
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			5.00 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 09:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 18:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:41	CH	EET MID

Client Sample ID: C-7 FS
Date Collected: 07/10/23 12:04
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-13
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			5.02 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 10:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 19:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 17:46	CH	EET MID

Client Sample ID: C-1 FS
Date Collected: 07/10/23 11:43
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-14
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			5.04 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 10:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: C-1 FS

Date Collected: 07/10/23 11:43
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-14

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			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/19/23 19:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 18:02	CH	EET MID

Client Sample ID: C-2 FS

Date Collected: 07/10/23 11:48
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-15

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			4.95 g	5 mL	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 10:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 06:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 18:07	CH	EET MID

Client Sample ID: B-4 FS

Date Collected: 07/10/23 11:33
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-16

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	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 11:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 07:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 18:12	CH	EET MID

Client Sample ID: B-7 FS

Date Collected: 07/10/23 11:41
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-17

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	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 11:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 07:41	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: B-7 FS

Lab Sample ID: 890-4933-17
Matrix: Solid
Date Collected: 07/10/23 11:41
Date Received: 07/12/23 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 18:17	CH	EET MID

Client Sample ID: D-4 FS

Lab Sample ID: 890-4933-18
Matrix: Solid
Date Collected: 07/10/23 11:14
Date Received: 07/12/23 10:20

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	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 12:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 08:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		5			57622	07/13/23 18:23	CH	EET MID

Client Sample ID: D-5 FS

Lab Sample ID: 890-4933-19
Matrix: Solid
Date Collected: 07/10/23 11:16
Date Received: 07/12/23 10:20

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	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 12:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57656	07/14/23 08:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 08:23	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		5			57622	07/13/23 18:28	CH	EET MID

Client Sample ID: D-6 FS

Lab Sample ID: 890-4933-20
Matrix: Solid
Date Collected: 07/10/23 11:20
Date Received: 07/12/23 10:20

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	57610	07/13/23 13:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57560	07/14/23 13:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/20/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57656	07/14/23 08:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57994	07/20/23 08:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57540	07/12/23 16:36	KS	EET MID
Soluble	Analysis	300.0		1			57622	07/13/23 18:33	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-1 FS

Lab Sample ID: 890-4933-21

Date Collected: 07/10/23 11:07
Matrix: Solid
Date Received: 07/12/23 10:20

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 20:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57658	07/14/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 12:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 19:14	CH	EET MID

Client Sample ID: D-2 FS

Lab Sample ID: 890-4933-22

Date Collected: 07/10/23 11:09
Matrix: Solid
Date Received: 07/12/23 10:20

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 20:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 13:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 19:29	CH	EET MID

Client Sample ID: D-3 FS

Lab Sample ID: 890-4933-23

Date Collected: 07/10/23 11:11
Matrix: Solid
Date Received: 07/12/23 10:20

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 21:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 19:34	CH	EET MID

Client Sample ID: D-7 FS

Lab Sample ID: 890-4933-24

Date Collected: 07/10/23 11:22
Matrix: Solid
Date Received: 07/12/23 10:20

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 21:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: D-7 FS
Date Collected: 07/10/23 11:22
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-24
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			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 14:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 19:40	CH	EET MID

Client Sample ID: E-1 FS
Date Collected: 07/11/23 08:53
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-25
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 21:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/18/23 17:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 19:45	CH	EET MID

Client Sample ID: E-2 FS
Date Collected: 07/11/23 08:55
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-26
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 22:10	AJ	EET MID
Total/NA	Prep	5035			4.96 g	5 mL	57823	07/17/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	57772	07/17/23 18:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	57888	07/19/23 06:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 20:00	CH	EET MID

Client Sample ID: E-3 FS
Date Collected: 07/11/23 08:58
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-27
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			4.96 g	5 mL	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 22:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: E-3 FS
Date Collected: 07/11/23 08:58
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-27
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	8015NM Prep			9.94 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	57888	07/19/23 07:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 20:06	CH	EET MID

Client Sample ID: E-4 FS
Date Collected: 07/11/23 09:01
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-28
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 22:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 15:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 20:11	CH	EET MID

Client Sample ID: E-5 FS
Date Collected: 07/11/23 09:02
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-29
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 23:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 15:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 20:16	CH	EET MID

Client Sample ID: H-2 FS
Date Collected: 07/11/23 08:21
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-30
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			4.96 g	5 mL	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 23:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 15:44	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: H-2 FS

Date Collected: 07/11/23 08:21
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 20:21	CH	EET MID

Client Sample ID: H-3 FS

Date Collected: 07/11/23 08:25
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-31

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 00:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 16:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 20:26	CH	EET MID

Client Sample ID: G-2 FS

Date Collected: 07/11/23 08:33
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-32

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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 01:14	AJ	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	57823	07/17/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	57772	07/17/23 19:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/19/23 07:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		10			57623	07/13/23 20:42	CH	EET MID

Client Sample ID: G-3 FS

Date Collected: 07/11/23 08:36
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-33

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			5.00 g	5 mL	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 01:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/19/23 08:04	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-3 FS
Date Collected: 07/11/23 08:36
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-33
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	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 20:47	CH	EET MID

Client Sample ID: F-1 FS
Date Collected: 07/11/23 08:42
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-34
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 01:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 21:03	CH	EET MID

Client Sample ID: F-2 FS
Date Collected: 07/11/23 08:45
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-35
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 02:16	AJ	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	58039	07/20/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	58088	07/21/23 16:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/19/23 08:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 21:08	CH	EET MID

Client Sample ID: F-3 FS
Date Collected: 07/11/23 08:49
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-36
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 02:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/19/23 08:50	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: F-3 FS
Date Collected: 07/11/23 08:49
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 21:13	CH	EET MID

Client Sample ID: F-4 FS
Date Collected: 07/11/23 08:51
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-37
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			4.96 g	5 mL	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 02:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 21:18	CH	EET MID

Client Sample ID: G-1 FS
Date Collected: 07/11/23 08:31
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-38
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 03:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	57888	07/19/23 09:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 21:23	CH	EET MID

Client Sample ID: G-4 FS
Date Collected: 07/11/23 08:39
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-39
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 03:37	AJ	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	57823	07/17/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	57772	07/17/23 19:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	57888	07/19/23 09:35	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: G-4 FS
Date Collected: 07/11/23 08:39
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-39
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			4.95 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		5			57623	07/13/23 21:28	CH	EET MID

Client Sample ID: NSW01 (E1,D1,C1)
Date Collected: 07/11/23 09:15
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-40
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	57611	07/13/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/16/23 03:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/17/23 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/19/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57658	07/14/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57888	07/18/23 16:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57541	07/12/23 16:39	KS	EET MID
Soluble	Analysis	300.0		1			57623	07/13/23 21:34	CH	EET MID

Client Sample ID: NESW01 (B1,B2)
Date Collected: 07/11/23 09:18
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-41
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			4.96 g	5 mL	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 01:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 22:15	CH	EET MID

Client Sample ID: ESW01 (A4,A5,A6)
Date Collected: 07/11/23 09:21
Date Received: 07/12/23 10:20

Lab Sample ID: 890-4933-42
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	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 01:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 22:30	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: SESW01 (B6,B7)

Lab Sample ID: 890-4933-43
Matrix: Solid
Date Collected: 07/11/23 09:24
Date Received: 07/12/23 10:20

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	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 01:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 14:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 22:35	CH	EET MID

Client Sample ID: S SW01 (B7,C7,D7)

Lab Sample ID: 890-4933-44
Matrix: Solid
Date Collected: 07/11/23 09:27
Date Received: 07/12/23 10:20

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	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 02:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 15:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 22:41	CH	EET MID

Client Sample ID: SW SW01 (H3,G4,F4,E5)

Lab Sample ID: 890-4933-45
Matrix: Solid
Date Collected: 07/11/23 09:31
Date Received: 07/12/23 10:20

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	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 02:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 15:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 22:46	CH	EET MID

Client Sample ID: SSW01C (B7,C7,D7)

Lab Sample ID: 890-4933-46
Matrix: Solid
Date Collected: 07/11/23 09:34
Date Received: 07/12/23 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 02:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Client Sample ID: SSW01C (B7,C7,D7)

Lab Sample ID: 890-4933-46

Date Collected: 07/11/23 09:34
Matrix: Solid
Date Received: 07/12/23 10:20

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			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 15:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 23:01	CH	EET MID

Client Sample ID: SESW01 (B7,B6)

Lab Sample ID: 890-4933-47

Date Collected: 07/11/23 09:37
Matrix: Solid
Date Received: 07/12/23 10:20

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	57613	07/13/23 13:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57561	07/14/23 03:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57681	07/14/23 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			57926	07/18/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57659	07/14/23 08:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57762	07/17/23 16:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57542	07/12/23 16:44	KS	EET MID
Soluble	Analysis	300.0		1			57624	07/13/23 23:06	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-4933-1
SDG: KH237008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4933-1	A-4 FS	Solid	07/11/23 10:15	07/12/23 10:20	4
890-4933-2	A-5 FS	Solid	07/11/23 10:18	07/12/23 10:20	4
890-4933-3	A-6 FS	Solid	07/11/23 10:21	07/12/23 10:20	4
890-4933-4	B-1 FS	Solid	07/10/23 11:26	07/12/23 10:20	4
890-4933-5	B-2 FS	Solid	07/10/23 11:28	07/12/23 10:20	4
890-4933-6	B-3 FS	Solid	07/10/23 11:31	07/12/23 10:20	4
890-4933-7	B-5 FS	Solid	07/10/23 11:35	07/12/23 10:20	4
890-4933-8	B-6 FS	Solid	07/10/23 11:38	07/12/23 10:20	7
890-4933-9	C-3 FS	Solid	07/10/23 11:51	07/12/23 10:20	4
890-4933-10	C-4 FS	Solid	07/10/23 11:53	07/12/23 10:20	4
890-4933-11	C-5 FS	Solid	07/10/23 11:56	07/12/23 10:20	4
890-4933-12	C-6 FS	Solid	07/10/23 11:59	07/12/23 10:20	7
890-4933-13	C-7 FS	Solid	07/10/23 12:04	07/12/23 10:20	7
890-4933-14	C-1 FS	Solid	07/10/23 11:43	07/12/23 10:20	4
890-4933-15	C-2 FS	Solid	07/10/23 11:48	07/12/23 10:20	4
890-4933-16	B-4 FS	Solid	07/10/23 11:33	07/12/23 10:20	4
890-4933-17	B-7 FS	Solid	07/10/23 11:41	07/12/23 10:20	7
890-4933-18	D-4 FS	Solid	07/10/23 11:14	07/12/23 10:20	4
890-4933-19	D-5 FS	Solid	07/10/23 11:16	07/12/23 10:20	4
890-4933-20	D-6 FS	Solid	07/10/23 11:20	07/12/23 10:20	7
890-4933-21	D-1 FS	Solid	07/10/23 11:07	07/12/23 10:20	4
890-4933-22	D-2 FS	Solid	07/10/23 11:09	07/12/23 10:20	4
890-4933-23	D-3 FS	Solid	07/10/23 11:11	07/12/23 10:20	4
890-4933-24	D-7 FS	Solid	07/10/23 11:22	07/12/23 10:20	7
890-4933-25	E-1 FS	Solid	07/11/23 08:53	07/12/23 10:20	4
890-4933-26	E-2 FS	Solid	07/11/23 08:55	07/12/23 10:20	4
890-4933-27	E-3 FS	Solid	07/11/23 08:58	07/12/23 10:20	4
890-4933-28	E-4 FS	Solid	07/11/23 09:01	07/12/23 10:20	4
890-4933-29	E-5 FS	Solid	07/11/23 09:02	07/12/23 10:20	4
890-4933-30	H-2 FS	Solid	07/11/23 08:21	07/12/23 10:20	4
890-4933-31	H-3 FS	Solid	07/11/23 08:25	07/12/23 10:20	4
890-4933-32	G-2 FS	Solid	07/11/23 08:33	07/12/23 10:20	4
890-4933-33	G-3 FS	Solid	07/11/23 08:36	07/12/23 10:20	4
890-4933-34	F-1 FS	Solid	07/11/23 08:42	07/12/23 10:20	4
890-4933-35	F-2 FS	Solid	07/11/23 08:45	07/12/23 10:20	4
890-4933-36	F-3 FS	Solid	07/11/23 08:49	07/12/23 10:20	4
890-4933-37	F-4 FS	Solid	07/11/23 08:51	07/12/23 10:20	4
890-4933-38	G-1 FS	Solid	07/11/23 08:31	07/12/23 10:20	4
890-4933-39	G-4 FS	Solid	07/11/23 08:39	07/12/23 10:20	4
890-4933-40	NSW01 (E1,D1,C1)	Solid	07/11/23 09:15	07/12/23 10:20	0 - 4
890-4933-41	NESW01 (B1,B2)	Solid	07/11/23 09:18	07/12/23 10:20	0 - 4
890-4933-42	ESW01 (A4,A5,A6)	Solid	07/11/23 09:21	07/12/23 10:20	0 - 4
890-4933-43	SESW01 (B6,B7)	Solid	07/11/23 09:24	07/12/23 10:20	0 - 4
890-4933-44	S SW01 (B7,C7,D7)	Solid	07/11/23 09:27	07/12/23 10:20	0 - 4
890-4933-45	SW SW01 (H3,G4,F4,E5)	Solid	07/11/23 09:31	07/12/23 10:20	0 - 4
890-4933-46	SSW01C (B7,C7,D7)	Solid	07/11/23 09:34	07/12/23 10:20	4 - 7
890-4933-47	SESW01 (B7,B6)	Solid	07/11/23 09:37	07/12/23 10:20	4 - 7

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 8

Project Manager:	Joseph Guesnier	Bill to: (if different)	Pale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140 Email:	gus.Sanchez@Terracon	

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:	Fighting OKra	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	NM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	23.8
Total Containers:		Corrected Temperature:	23.6

ANALYSIS REQUEST

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

890-4933 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
A-4 FS	Soil	7-11-23	10:15	4	G	1	✓	✓	✓	
A-5 FS	Soil	7-11-23	10:18	4	G	1	✓	✓	✓	
A-6 FS	Soil	7-11-23	10:21	4	G	1	✓	✓	✓	

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	B Mallett	Clue Cup	7-12-23 1020			
3				4		
5				6		

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Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 8

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	gus.Sanchez@Terracon.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:	Fighting OKra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	K2123708	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:		

Preservative Codes

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

	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
	B-1 FS	Soil	7-10-23	11:26	4	C	1	✓	✓	✓	
	B-2 FS	Soil	7-10-23	11:28	4	C	1	✓	✓	✓	
	B-3 FS	Soil	7-10-23	11:31	4	C	1	✓	✓	✓	
VV	~~B-4~~										
	B-5 FS	Soil	7-10-23	11:35	4	C	1	✓	✓	✓	
	B-6 FS	Soil	7-10-23	11:38	7	C	1	✓	✓	✓	
VV	~~B-7~~										
VV	~~B NSW~~	Soil	7-10-23	12:11	4-7	C	1	✓	✓	✓	
VV	~~B SSW~~	Soil	7-10-23	12:18	4-7	C	1	✓	✓	✓	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 B Miller		7.12.23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	gus.Sanchez@Terracon.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:	Fighting Okra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples 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:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
C-1											
C-2											
C-3 FS	Soil	7-10-23	11:51	4	C	1		✓	✓	✓	
C-4 FS	Soil	7-10-23	11:53	4	C	1		✓	✓	✓	
C-5 FS	Soil	7-10-23	11:56	4	C	1		✓	✓	✓	
C-6 FS	Soil	7-10-23	11:59	7	C	1		✓	✓	✓	
C-7 FS	Soil	7-10-23	12:04	7	C	1		✓	✓	✓	
CNSW	Soil	7-10-23	12:14	4	C	1		✓	✓	✓	
CSSW	Soil	7-10-23	12:22	4							

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 B Mitchell		7.12.23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 3/1/2024 11:35:47 AM
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Gvesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	806-300-0190	Email:	gus.sanchez@Terracon.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:	Fighting Okra 7H
Project Number:	KH237008
Project Location:	Eddy County
Sampler's Name:	Gus Sanchez
PO #:	

Turn Around: ☐ Routine ☑ Rush
Due Date: 48 hour
TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
C-1 FS	Soil	7-10-23	11:43	4	G	1	✓	✓	✓	
C-2 FS	Soil	7-10-23	11:48	4	G	1	✓	✓	✓	
B-4 FS	Soil	7-10-23	11:33	4	G	1	✓	✓	✓	
B-7 FS	Soil	7-10-23	11:41	7	G	1	✓	✓	✓	
D-4 FS	Soil	7-10-23	11:14	4	G	1	✓	✓	✓	
D-5 FS	Soil	7-10-23	11:16	4	G	1	✓	✓	✓	
D-6 FS	Soil	7-10-23	11:20	7	G	1	✓	✓	✓	

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

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1	B Mueller	Cloe Cy	7-12-23 1026			
3				4		
5				6		

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 5 of 8

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	gus.sanchez@terracon.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:	Fighting OKra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
D-1 FS		7-10-23	11:07	4	C	1		✓	✓	✓	
D-2 FS		7-10-23	11:09	4	C	1		✓	✓	✓	
D-3 FS		7-10-23	11:11	4	C	1		✓	✓	✓	
~~D-4~~											
~~D-5~~											
~~D-6~~											
D-7 FS		7-10-23	11:22	7	C	1		✓	✓	✓	

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

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	B Mueller		7.12.23 1026			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM	City, State ZIP:	
Phone:	806-300-0140	Email:	gus.Sanchez@Terracon.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:	Fighting OKra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
E1 FS	Soil	7-11-23	8:53	4	G	1	✓	✓	✓
E2 FS	Soil	7-11-23	8:55	4	G	1	✓	✓	✓
E3 FS	Soil	7-11-23	8:58	4	G	1	✓	✓	✓
E4 FS	Soil	7-11-23	9:01	4	G	1	✓	✓	✓
E5 FS	Soil	7-11-23	9:02	4	G	1	✓	✓	✓
H2 FS	Soil	7-11-23	8:21	4	G	1	✓	✓	✓
H3 FS	Soil	7-11-23	8:25	4	G	1	✓	✓	✓

Preservative Codes

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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1 B Miller	Cle Cup	7-12-23 1000	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	gus.sanchez@Terracon.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:	Fighting Okra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
G-2 FS	Soil	7-11-23	8:33	4	C	1	✓	✓	✓
G-3 FS	Soil	7-11-23	8:36	4	C	1	✓	✓	✓
f-1 FS	Soil	7-11-23	8:42	4	C	1	✓	✓	✓
f-2 FS	Soil	7-11-23	8:45	4	C	1	✓	✓	✓
f-3 FS	Soil	7-11-23	8:49	4	C	1	✓	✓	✓
f-4 FS	Soil	7-11-23	8:51	4	C	1	✓	✓	✓
G1 FS	Soil	7-11-23	8:31	4	C	1	✓	✓	✓
G4 FS	Soil	7-11-23	8:39	4	C	1	✓	✓	✓

Preservative Codes

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	B Mallu	Clue Cf	7.12.23 1020			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Gvesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	gvs.Sanchez@Terracon.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:	Fighting OKra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples 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:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
NSW01 (E1, D1, C1)	Soil	7-11-23	9:15	0-4	G	1	✓	✓	✓	
NESW01 (B1, B2)	Soil	7-11-23	9:18	0-4	G	1	✓	✓	✓	
ESW01 (A4, A5, A6)	Soil	7-11-23	9:21	0-4	G	1	✓	✓	✓	
SESW01 (B6, B7)	Soil	7-11-23	9:24	0-4	G	1	✓	✓	✓	
SSW01 (B7, C7, D7)	Soil	7-11-23	9:27	0-4	G	1	✓	✓	✓	
SWSW01 (H3, G4, F4, E5)	Soil	7-11-23	9:31	0-4	G	1	✓	✓	✓	
SSW02 (B7, C7, D7)	Soil	7-11-23	9:34	4-7	G	1	✓	✓	✓	
SESW02 (B7, B6')	Soil	7-11-23	9:37	4-7	G	1	✓	✓	✓	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 B Mallu	Cice Ctt	7-12-23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4933-1
SDG Number: KH237008

Login Number: 4933
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: Terracon Consulting Eng & Scientists

Job Number: 890-4933-1
SDG Number: KH237008

Login Number: 4933
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/13/23 11:48 AM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/1/2023 10:30:28 AM

JOB DESCRIPTION

Fighting Okra 7H
SDG NUMBER KH237008

JOB NUMBER

890-4991-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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Eurofins Carlsbad

Job Notes

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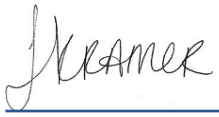
Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Job ID: 890-4991-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4991-1

Receipt
The samples were received on 7/25/2023 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: P9 FS (890-4991-1), K8 FS (890-4991-2), H11 (890-4991-3), SW SW02 (H4,H5,G6,G7) (890-4991-4), NWSW01 (F1,G1,H2,H3) (890-4991-5), NSW02 (G8,H8,I8,J9) (890-4991-6), NSW03 (M9,N9,O9,P9) (890-4991-7), WSW01 (P9) (890-4991-8), SSW03 (J11,K10,L9) (890-4991-9), SESW02 (E7,F8,F9,F10) (890-4991-10), D5 FS (890-4991-11), G1 FS (890-4991-12), G2 FS (890-4991-13), G3 FS (890-4991-14), F1 FS (890-4991-15), F2 FS (890-4991-16), F3 FS (890-4991-17), E1 FS (890-4991-18), E2 FS (890-4991-19), E3 FS (890-4991-20), NSW04 (G1,F1,E1) (890-4991-21), NSW04 (G1,F1,E1) (890-4991-22) and SSW04 (M9,N9,O9,P9) (890-4991-23).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-58581/1-A) and (LCSD 880-58581/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: K8 FS (890-4991-2), H11 (890-4991-3), F1 FS (890-4991-15), F2 FS (890-4991-16), F3 FS (890-4991-17) and (890-4991-A-1-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-58581 and analytical batch 880-58520 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58520 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58520/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: NSW04 (G1,F1,E1) (890-4991-21). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58649 and analytical batch 880-58688 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: E2 FS (890-4991-19). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: P9 FS (890-4991-1), SW SW02 (H4,H5,G6,G7) (890-4991-4), WSW01 (P9) (890-4991-8), D5 FS (890-4991-11), G1 FS (890-4991-12) and (MB 880-58586/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58548 and analytical batch 880-58593 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Job ID: 890-4991-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: P9 FS

Date Collected: 07/24/23 11:18
Date Received: 07/25/23 13:10
Sample Depth: 4

Lab Sample ID: 890-4991-1

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		07/26/23 15:15	07/26/23 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:52	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/26/23 22:52	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:52	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/26/23 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/26/23 15:15*	*07/26/23 22:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/26/23 15:15*	*07/26/23 22:52*	*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			07/27/23 07:33	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			08/01/23 10:34	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		07/26/23 16:08	07/31/23 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/23 16:08	07/31/23 14:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/23 16:08	07/31/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 14:45*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/26/23 16:08*	*07/31/23 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.9**		4.99		mg/Kg			07/26/23 22:12	1

Client Sample ID: K8 FS

Date Collected: 07/24/23 11:21
Date Received: 07/25/23 13:10
Sample Depth: 4

Lab Sample ID: 890-4991-2

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		07/26/23 15:15	07/26/23 23:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/26/23 23:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/26/23 23:13	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403		mg/Kg		07/26/23 15:15	07/26/23 23:13	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		07/26/23 15:15	07/26/23 23:13	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		07/26/23 15:15	07/26/23 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*07/26/23 15:15*	*07/26/23 23:13*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: K8 FS

Lab Sample ID: 890-4991-2
Matrix: Solid
Date Collected: 07/24/23 11:21
Date Received: 07/25/23 13:10
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/26/23 15:15*	*07/26/23 23:13*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**174**		49.7		mg/Kg			08/01/23 10:34	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	<49.7	U	49.7		mg/Kg		07/26/23 16:08	07/31/23 15:06	1
Diesel Range Organics (Over C10-C28)	**174**		49.7		mg/Kg		07/26/23 16:08	07/31/23 15:06	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/26/23 16:08	07/31/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/26/23 16:08*	*07/31/23 15:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/26/23 16:08*	*07/31/23 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		5.00		mg/Kg			07/26/23 22:32	1

Client Sample ID: H11

Lab Sample ID: 890-4991-3
Matrix: Solid
Date Collected: 07/24/23 11:24
Date Received: 07/25/23 13:10
Sample Depth: 4

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		07/26/23 15:15	07/26/23 23:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 23:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 23:34	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		07/26/23 15:15	07/26/23 23:34	1
o-Xylene	**0.00257**	***+**	0.00200		mg/Kg		07/26/23 15:15	07/26/23 23:34	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		07/26/23 15:15	07/26/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*07/26/23 15:15*	*07/26/23 23:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/26/23 15:15*	*07/26/23 23:34*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**605**		50.1		mg/Kg			08/01/23 10:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: H11

Lab Sample ID: 890-4991-3
Matrix: Solid
Date Collected: 07/24/23 11:24
Date Received: 07/25/23 13:10
Sample Depth: 4

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	<50.1	U	50.1		mg/Kg		07/26/23 16:08	07/31/23 15:50	1
Diesel Range Organics (Over C10-C28)	**605**		50.1		mg/Kg		07/26/23 16:08	07/31/23 15:50	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/26/23 16:08	07/31/23 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/26/23 16:08*	*07/31/23 15:50*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/26/23 16:08*	*07/31/23 15:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		4.95		mg/Kg			07/26/23 22:38	1

Client Sample ID: SW SW02 (H4,H5,G6,G7)

Lab Sample ID: 890-4991-4
Matrix: Solid
Date Collected: 07/24/23 11:26
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/26/23 23:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/26/23 15:15	07/26/23 23:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/26/23 15:15	07/26/23 23:55	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396		mg/Kg		07/26/23 15:15	07/26/23 23:55	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		07/26/23 15:15	07/26/23 23:55	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		07/26/23 15:15	07/26/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/26/23 15:15*	*07/26/23 23:55*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/26/23 15:15*	*07/26/23 23:55*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/01/23 10:34	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	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 16:12	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 16:12	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 16:12*	*1*
o-Terphenyl	*127*		*70 - 130*	*07/26/23 16:08*	*07/31/23 16:12*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: SW SW02 (H4,H5,G6,G7)

Lab Sample ID: 890-4991-4
Matrix: Solid
Date Collected: 07/24/23 11:26
Date Received: 07/25/23 13:10
Sample Depth: 0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.7		5.05		mg/Kg			07/26/23 22:45	1

Client Sample ID: NWSW01 (F1,G1,H2,H3)

Lab Sample ID: 890-4991-5
Matrix: Solid
Date Collected: 07/24/23 11:29
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 00:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/26/23 15:15	07/27/23 00:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/26/23 15:15	07/27/23 00:15	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397		mg/Kg		07/26/23 15:15	07/27/23 00:15	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		07/26/23 15:15	07/27/23 00:15	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		07/26/23 15:15	07/27/23 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:15*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:15*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/01/23 10:34	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	<50.5	U	50.5		mg/Kg		07/26/23 16:08	07/31/23 16:34	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/26/23 16:08	07/31/23 16:34	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/26/23 16:08	07/31/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*07/26/23 16:08*	*07/31/23 16:34*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/26/23 16:08*	*07/31/23 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195		5.01		mg/Kg			07/26/23 22:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW02 (G8,H8,I8,J9)

Lab Sample ID: 890-4991-6
Matrix: Solid
Date Collected: 07/24/23 11:33
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:36	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400		mg/Kg		07/26/23 15:15	07/27/23 00:36	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:36	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		07/26/23 15:15	07/27/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:36*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/27/23 07:33	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			08/01/23 10:34	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		07/26/23 16:08	07/31/23 16:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/23 16:08	07/31/23 16:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/23 16:08	07/31/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/26/23 16:08*	*07/31/23 16:57*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/26/23 16:08*	*07/31/23 16:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.0**		4.99		mg/Kg			07/26/23 23:12	1

Client Sample ID: NSW03 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-7
Matrix: Solid
Date Collected: 07/24/23 11:37
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 00:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:56	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 00:56	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 00:56	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:56*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW03 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-7
Matrix: Solid
Date Collected: 07/24/23 11:37
Date Received: 07/25/23 13:10
Sample Depth: 0

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/26/23 15:15*	*07/27/23 00:56*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/01/23 10:34	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	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 17:19	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 17:19	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/26/23 16:08	07/31/23 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/26/23 16:08*	*07/31/23 17:19*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/26/23 16:08*	*07/31/23 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.0**		4.95		mg/Kg			07/26/23 23:18	1

Client Sample ID: WSW01 (P9)

Lab Sample ID: 890-4991-8
Matrix: Solid
Date Collected: 07/24/23 11:39
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 01:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:17	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 01:17	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:17	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:17*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:17*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/01/23 10:34	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: WSW01 (P9)

Lab Sample ID: 890-4991-8
Matrix: Solid
Date Collected: 07/24/23 11:39
Date Received: 07/25/23 13:10
Sample Depth: 0

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	<50.1	U	50.1		mg/Kg		07/26/23 16:08	07/31/23 17:41	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/26/23 16:08	07/31/23 17:41	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/26/23 16:08	07/31/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 17:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 17:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.2**		4.98		mg/Kg			07/26/23 23:25	1

Client Sample ID: SSW03 (J11,K10,L9)

Lab Sample ID: 890-4991-9
Matrix: Solid
Date Collected: 07/24/23 11:42
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 01:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/27/23 01:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/27/23 01:38	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404		mg/Kg		07/26/23 15:15	07/27/23 01:38	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		07/26/23 15:15	07/27/23 01:38	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		07/26/23 15:15	07/27/23 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:38*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:38*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/01/23 10:34	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	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:04	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:04	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/26/23 16:08*	*07/31/23 18:04*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/26/23 16:08*	*07/31/23 18:04*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: SSW03 (J11,K10,L9)

Lab Sample ID: 890-4991-9
Matrix: Solid
Date Collected: 07/24/23 11:42
Date Received: 07/25/23 13:10
Sample Depth: 0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		5.04		mg/Kg			07/26/23 23:32	1

Client Sample ID: SESW02 (E7,F8,F9,F10)

Lab Sample ID: 890-4991-10
Matrix: Solid
Date Collected: 07/24/23 11:45
Date Received: 07/25/23 13:10
Sample Depth: 0

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		07/26/23 15:15	07/27/23 01:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:58	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 01:58	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		07/26/23 15:15	07/27/23 01:58	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:58*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/26/23 15:15*	*07/27/23 01:58*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/01/23 10:34	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	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:26	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/26/23 16:08	07/31/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*07/26/23 16:08*	*07/31/23 18:26*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/26/23 16:08*	*07/31/23 18:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.2		4.97		mg/Kg			07/26/23 23:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: D5 FS

Lab Sample ID: 890-4991-11
Matrix: Solid
Date Collected: 07/24/23 11:48
Date Received: 07/25/23 13:10
Sample Depth: 6

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		07/26/23 15:15	07/27/23 03:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:21	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 03:21	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:21	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/26/23 15:15*	*07/27/23 03:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/26/23 15:15*	*07/27/23 03:21*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.7**		50.2		mg/Kg			08/01/23 10:34	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	<50.2	U	50.2		mg/Kg		07/26/23 16:08	07/31/23 18:48	1
Diesel Range Organics (Over C10-C28)	**77.7**		50.2		mg/Kg		07/26/23 16:08	07/31/23 18:48	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/26/23 16:08	07/31/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*240*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 18:48*	*1*
o-Terphenyl	*220*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.1**		4.95		mg/Kg			07/26/23 23:45	1

Client Sample ID: G1 FS

Lab Sample ID: 890-4991-12
Matrix: Solid
Date Collected: 07/24/23 11:51
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 03:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:42	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 03:42	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		07/26/23 15:15	07/27/23 03:42	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/26/23 15:15*	*07/27/23 03:42*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: G1 FS

Date Collected: 07/24/23 11:51
Date Received: 07/25/23 13:10
Sample Depth: 7

Lab Sample ID: 890-4991-12

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/26/23 15:15*	*07/27/23 03:42*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.7**		49.9		mg/Kg			08/01/23 10:34	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		07/26/23 16:08	07/31/23 19:09	1
Diesel Range Organics (Over C10-C28)	**53.7**		49.9		mg/Kg		07/26/23 16:08	07/31/23 19:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/23 16:08	07/31/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 19:09*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*07/26/23 16:08*	*07/31/23 19:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.7**		4.99		mg/Kg			07/27/23 00:05	1

Client Sample ID: G2 FS

Date Collected: 07/24/23 11:54
Date Received: 07/25/23 13:10
Sample Depth: 7

Lab Sample ID: 890-4991-13

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		07/26/23 15:15	07/27/23 04:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 04:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/23 15:15	07/27/23 04:03	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 04:03	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		07/26/23 15:15	07/27/23 04:03	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		07/26/23 15:15	07/27/23 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/26/23 15:15*	*07/27/23 04:03*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/26/23 15:15*	*07/27/23 04:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/31/23 15:10	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: G2 FS

Lab Sample ID: 890-4991-13
Matrix: Solid

Date Collected: 07/24/23 11:54
Date Received: 07/25/23 13:10
Sample Depth: 7

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	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 14:18	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 14:18	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/27/23 10:26*	*07/28/23 14:18*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/27/23 10:26*	*07/28/23 14:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		4.97		mg/Kg			07/27/23 00:11	1

Client Sample ID: G3 FS

Lab Sample ID: 890-4991-14
Matrix: Solid

Date Collected: 07/24/23 11:57
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 04:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:23	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400		mg/Kg		07/26/23 15:15	07/27/23 04:23	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:23	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		07/26/23 15:15	07/27/23 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/26/23 15:15*	*07/27/23 04:23*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/26/23 15:15*	*07/27/23 04:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/27/23 07:33	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			07/31/23 15:10	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		07/27/23 10:26	07/28/23 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/27/23 10:26	07/28/23 14:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/27/23 10:26	07/28/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/27/23 10:26*	*07/28/23 14:42*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/27/23 10:26*	*07/28/23 14:42*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: G3 FS

Lab Sample ID: 890-4991-14
Matrix: Solid
Date Collected: 07/24/23 11:57
Date Received: 07/25/23 13:10
Sample Depth: 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.8**		5.00		mg/Kg			07/27/23 00:31	1

Client Sample ID: F1 FS

Lab Sample ID: 890-4991-15
Matrix: Solid
Date Collected: 07/24/23 12:01
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 04:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:44	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 04:44	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 04:44	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*07/26/23 15:15*	*07/27/23 04:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/26/23 15:15*	*07/27/23 04:44*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**97.5**		50.0		mg/Kg			07/31/23 15:10	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		07/27/23 10:26	07/28/23 15:05	1
Diesel Range Organics (Over C10-C28)	**97.5**		50.0		mg/Kg		07/27/23 10:26	07/28/23 15:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/27/23 10:26*	*07/28/23 15:05*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/27/23 10:26*	*07/28/23 15:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		4.98		mg/Kg			07/27/23 00:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: F2 FS

Lab Sample ID: 890-4991-16
Matrix: Solid

Date Collected: 07/24/23 12:04
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 05:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 05:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 05:04	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 05:04	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		07/26/23 15:15	07/27/23 05:04	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*07/26/23 15:15*	*07/27/23 05:04*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/26/23 15:15*	*07/27/23 05:04*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.3**		50.3		mg/Kg			07/31/23 15:10	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	<50.3	U	50.3		mg/Kg		07/27/23 10:26	07/28/23 15:51	1
Diesel Range Organics (Over C10-C28)	**58.3**		50.3		mg/Kg		07/27/23 10:26	07/28/23 15:51	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/27/23 10:26	07/28/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/27/23 10:26*	*07/28/23 15:51*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/27/23 10:26*	*07/28/23 15:51*	*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			07/27/23 00:45	1

Client Sample ID: F3 FS

Lab Sample ID: 890-4991-17
Matrix: Solid

Date Collected: 07/24/23 12:07
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 05:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/27/23 05:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:15	07/27/23 05:25	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403		mg/Kg		07/26/23 15:15	07/27/23 05:25	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		07/26/23 15:15	07/27/23 05:25	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		07/26/23 15:15	07/27/23 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*07/26/23 15:15*	*07/27/23 05:25*	*1*

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: F3 FS

Lab Sample ID: 890-4991-17
Matrix: Solid

Date Collected: 07/24/23 12:07
Date Received: 07/25/23 13:10
Sample Depth: 7

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/26/23 15:15*	*07/27/23 05:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**199**		50.2		mg/Kg			07/31/23 15:10	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	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 16:13	1
Diesel Range Organics (Over C10-C28)	**199**		50.2		mg/Kg		07/27/23 10:26	07/28/23 16:13	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/27/23 10:26*	*07/28/23 16:13*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/27/23 10:26*	*07/28/23 16:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		5.04		mg/Kg			07/27/23 00:51	1

Client Sample ID: E1 FS

Lab Sample ID: 890-4991-18
Matrix: Solid

Date Collected: 07/24/23 12:11
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 05:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 05:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 05:46	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 05:46	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 05:46	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		07/26/23 15:15	07/27/23 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*07/26/23 15:15*	*07/27/23 05:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/26/23 15:15*	*07/27/23 05:46*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**155**		50.0		mg/Kg			07/31/23 15:10	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: E1 FS

Lab Sample ID: 890-4991-18
Matrix: Solid
Date Collected: 07/24/23 12:11
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/27/23 10:26	07/28/23 16:35	1
Diesel Range Organics (Over C10-C28)	**155**		50.0		mg/Kg		07/27/23 10:26	07/28/23 16:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/27/23 10:26*	*07/28/23 16:35*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/27/23 10:26*	*07/28/23 16:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.8**		4.95		mg/Kg			07/27/23 00:58	1

Client Sample ID: E2 FS

Lab Sample ID: 890-4991-19
Matrix: Solid
Date Collected: 07/24/23 12:14
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 06:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 06:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/27/23 06:06	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		07/26/23 15:15	07/27/23 06:06	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		07/26/23 15:15	07/27/23 06:06	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		07/26/23 15:15	07/27/23 06:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/26/23 15:15*	*07/27/23 06:06*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/26/23 15:15*	*07/27/23 06:06*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**99.8**		49.9		mg/Kg			07/31/23 15:10	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		07/27/23 10:26	07/28/23 16:57	1
Diesel Range Organics (Over C10-C28)	**99.8**		49.9		mg/Kg		07/27/23 10:26	07/28/23 16:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/27/23 10:26	07/28/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/27/23 10:26*	*07/28/23 16:57*	*1*
o-Terphenyl	*0.2*	*S1-*	*70 - 130*	*07/27/23 10:26*	*07/28/23 16:57*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: E2 FS

Lab Sample ID: 890-4991-19
Matrix: Solid
Date Collected: 07/24/23 12:14
Date Received: 07/25/23 13:10
Sample Depth: 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5660		50.1		mg/Kg			07/27/23 01:04	10

Client Sample ID: E3 FS

Lab Sample ID: 890-4991-20
Matrix: Solid
Date Collected: 07/24/23 12:17
Date Received: 07/25/23 13:10
Sample Depth: 7

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		07/26/23 15:15	07/27/23 06:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 06:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:15	07/27/23 06:27	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 06:27	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		07/26/23 15:15	07/27/23 06:27	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		07/26/23 15:15	07/27/23 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/26/23 15:15*	*07/27/23 06:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/26/23 15:15*	*07/27/23 06:27*	*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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/31/23 15:10	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	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 17:20	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 17:20	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/27/23 10:26*	*07/28/23 17:20*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/27/23 10:26*	*07/28/23 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	545		4.99		mg/Kg			07/27/23 01:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW04 (G1,F1,E1)

Date Collected: 07/24/23 12:21
Date Received: 07/25/23 13:10
Sample Depth: 0 - 4

Lab Sample ID: 890-4991-21
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		07/26/23 15:11	07/27/23 05:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 05:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 05:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/26/23 15:11	07/27/23 05:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 05:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/26/23 15:11	07/27/23 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/26/23 15:11*	*07/27/23 05:46*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*07/26/23 15:11*	*07/27/23 05:46*	*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			07/27/23 07:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/31/23 15:10	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	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 17:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 17:42	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/27/23 10:26*	*07/28/23 17:42*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/27/23 10:26*	*07/28/23 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		4.97		mg/Kg			07/27/23 13:12	1

Client Sample ID: NSW04 (G1,F1,E1)

Date Collected: 07/24/23 12:24
Date Received: 07/25/23 13:10
Sample Depth: 4 - 7

Lab Sample ID: 890-4991-22
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		07/26/23 15:11	07/27/23 06:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:11	07/27/23 06:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:11	07/27/23 06:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/26/23 15:11	07/27/23 06:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/26/23 15:11	07/27/23 06:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/26/23 15:11	07/27/23 06:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/26/23 15:11*	*07/27/23 06:06*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW04 (G1,F1,E1)

Lab Sample ID: 890-4991-22
Matrix: Solid
Date Collected: 07/24/23 12:24
Date Received: 07/25/23 13:10
Sample Depth: 4 - 7

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*07/26/23 15:11*	*07/27/23 06:06*	*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			07/27/23 07:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			07/31/23 15:10	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	<50.4	U	50.4		mg/Kg		07/27/23 10:26	07/28/23 18:04	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/27/23 10:26	07/28/23 18:04	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/27/23 10:26	07/28/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/27/23 10:26*	*07/28/23 18:04*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/27/23 10:26*	*07/28/23 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.2**		5.00		mg/Kg			07/27/23 13:19	1

Client Sample ID: SSW04 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-23
Matrix: Solid
Date Collected: 07/24/23 12:28
Date Received: 07/25/23 13:10
Sample Depth: 0 - 4

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		07/26/23 15:11	07/27/23 06:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:11	07/27/23 06:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:11	07/27/23 06:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/26/23 15:11	07/27/23 06:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/23 15:11	07/27/23 06:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/26/23 15:11	07/27/23 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/26/23 15:11*	*07/27/23 06:26*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/26/23 15:11*	*07/27/23 06:26*	*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			07/27/23 07:42	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			07/31/23 15:10	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: SSW04 (M9,N9,O9,P9)
Date Collected: 07/24/23 12:28
Date Received: 07/25/23 13:10
Sample Depth: 0 - 4

Lab Sample ID: 890-4991-23
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		07/27/23 10:26	07/28/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/27/23 10:26	07/28/23 18:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/27/23 10:26	07/28/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/27/23 10:26*	*07/28/23 18:26*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/27/23 10:26*	*07/28/23 18:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.2**		4.96		mg/Kg			07/27/23 13:26	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4991-1	P9 FS	106	97
890-4991-1 MS	P9 FS	141 S1+	101
890-4991-1 MSD	P9 FS	122	96
890-4991-2	K8 FS	136 S1+	104
890-4991-3	H11	139 S1+	100
890-4991-4	SW SW02 (H4,H5,G6,G7)	115	107
890-4991-5	NWSW01 (F1,G1,H2,H3)	114	108
890-4991-6	NSW02 (G8,H8,I8,J9)	119	109
890-4991-7	NSW03 (M9,N9,O9,P9)	115	106
890-4991-8	WSW01 (P9)	124	109
890-4991-9	SSW03 (J11,K10,L9)	117	106
890-4991-10	SESW02 (E7,F8,F9,F10)	126	107
890-4991-11	D5 FS	112	93
890-4991-12	G1 FS	120	112
890-4991-13	G2 FS	111	105
890-4991-14	G3 FS	112	107
890-4991-15	F1 FS	133 S1+	98
890-4991-16	F2 FS	140 S1+	100
890-4991-17	F3 FS	142 S1+	101
890-4991-18	E1 FS	129	99
890-4991-19	E2 FS	122	109
890-4991-20	E3 FS	116	105
890-4991-21	NSW04 (G1,F1,E1)	95	61 S1-
890-4991-22	NSW04 (G1,F1,E1)	94	71
890-4991-23	SSW04 (M9,N9,O9,P9)	97	81
890-4993-A-1-C MS	Matrix Spike	128	108
890-4993-A-1-D MSD	Matrix Spike Duplicate	120	105
LCS 880-58579/1-A	Lab Control Sample	115	103
LCS 880-58581/1-A	Lab Control Sample	145 S1+	102
LCSD 880-58579/2-A	Lab Control Sample Dup	118	87
LCSD 880-58581/2-A	Lab Control Sample Dup	164 S1+	108
MB 880-58522/5-A	Method Blank	71	89
MB 880-58524/5-A	Method Blank	99	89
MB 880-58579/5-A	Method Blank	76	82
MB 880-58581/5-A	Method Blank	98	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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31221-A-1-F MS	Matrix Spike	112	90
880-31221-A-1-G MSD	Matrix Spike Duplicate	106	84
880-31266-A-1-I MS	Matrix Spike	77	75
880-31266-A-1-J MSD	Matrix Spike Duplicate	77	74

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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)										
890-4991-1	P9 FS	132 S1+	121										
890-4991-2	K8 FS	105	92										
890-4991-3	H11	102	97										
890-4991-4	SW SW02 (H4,H5,G6,G7)	141 S1+	127										
890-4991-5	NWSW01 (F1,G1,H2,H3)	119	113										
890-4991-6	NSW02 (G8,H8,I8,J9)	117	111										
890-4991-7	NSW03 (M9,N9,O9,P9)	130	121										
890-4991-8	WSW01 (P9)	148 S1+	132 S1+										
890-4991-9	SSW03 (J11,K10,L9)	128	117										
890-4991-10	SESW02 (E7,F8,F9,F10)	126	114										
890-4991-11	D5 FS	240 S1+	220 S1+										
890-4991-12	G1 FS	147 S1+	134 S1+										
890-4991-13	G2 FS	72	81										
890-4991-14	G3 FS	79	91										
890-4991-15	F1 FS	75	85										
890-4991-16	F2 FS	75	87										
890-4991-17	F3 FS	76	87										
890-4991-18	E1 FS	75	86										
890-4991-19	E2 FS	76	0.2 S1-										
890-4991-20	E3 FS	76	87										
890-4991-21	NSW04 (G1,F1,E1)	81	92										
890-4991-22	NSW04 (G1,F1,E1)	74	86										
890-4991-23	SSW04 (M9,N9,O9,P9)	78	89										
LCS 880-58586/2-A	Lab Control Sample	93	97										
LCS 880-58649/2-A	Lab Control Sample	93	96										
LCSD 880-58586/3-A	Lab Control Sample Dup	92	94										
LCSD 880-58649/3-A	Lab Control Sample Dup	93	94										
MB 880-58586/1-A	Method Blank	145 S1+	133 S1+										
MB 880-58649/1-A	Method Blank	85	100										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58522/5-A
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/26/23 09:15	07/26/23 14:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/23 09:15	07/26/23 14:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/23 09:15	07/26/23 14:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/26/23 09:15	07/26/23 14:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/26/23 09:15	07/26/23 14:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/26/23 09:15	07/26/23 14:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*07/26/23 09:15*	*07/26/23 14:01*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/26/23 09:15*	*07/26/23 14:01*	*1*

Lab Sample ID: MB 880-58524/5-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 09:29	07/26/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/23 09:29	07/26/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/23 09:29	07/26/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/26/23 09:29*	*07/26/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/26/23 09:29*	*07/26/23 11:44*	*1*

Lab Sample ID: MB 880-58579/5-A
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 00:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 00:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/26/23 15:11	07/27/23 00:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:11	07/27/23 00:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/26/23 15:11	07/27/23 00:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/26/23 15:11*	*07/27/23 00:37*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/26/23 15:11*	*07/27/23 00:37*	*1*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Lab Sample ID: LCS 880-58579/1-A
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58579

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1061		mg/Kg		106	70 - 130		
Toluene			0.100	0.09288		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1077		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2245		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-58579/2-A
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58579

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1057		mg/Kg		106	70 - 130	0	35
Toluene			0.100	0.09885		mg/Kg		99	70 - 130	6	35
Ethylbenzene			0.100	0.1154		mg/Kg		115	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2399		mg/Kg		120	70 - 130	7	35
o-Xylene			0.100	0.1199		mg/Kg		120	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-4993-A-1-C MS
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.09602		mg/Kg		96	70 - 130		
Toluene	<0.00199	U	0.0996	0.08558		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1050		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2104		mg/Kg		106	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1039		mg/Kg		104	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-4993-A-1-D MSD
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08741		mg/Kg		87	70 - 130	9	35
Toluene	<0.00199	U	0.101	0.07577		mg/Kg		75	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.101	0.09159		mg/Kg		91	70 - 130	14	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Lab Sample ID: 890-4993-A-1-D MSD
Matrix: Solid
Analysis Batch: 58518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1843		mg/Kg		91	70 - 130	13	35
o-Xylene	<0.00199	U	0.101	0.09075		mg/Kg		90	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-58581/5-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/23 15:15	07/26/23 22:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/23 15:15	07/26/23 22:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/23 15:15	07/26/23 22:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/26/23 15:15*	*07/26/23 22:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/26/23 15:15*	*07/26/23 22:31*	*1*

Lab Sample ID: LCS 880-58581/1-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07973		mg/Kg		80	70 - 130
Toluene	0.100	0.09818		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2237		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-58581/2-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09260		mg/Kg		93	70 - 130	15	35
Toluene	0.100	0.1144		mg/Kg		114	70 - 130	15	35
Ethylbenzene	0.100	0.1305		mg/Kg		130	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2791	*+	mg/Kg		140	70 - 130	22	35
o-Xylene	0.100	0.1433	*+	mg/Kg		143	70 - 130	21	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4991-1 MS — **Client Sample ID: P9 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58520 — **Prep Batch: 58581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09104		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.0996	0.1088		mg/Kg		109	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00399	U *+	0.199	0.2204		mg/Kg		110	70 - 130
o-Xylene	<0.00200	U *+	0.0996	0.1117		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4991-1 MSD — **Client Sample ID: P9 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58520 — **Prep Batch: 58581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09198		mg/Kg		93	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.1048		mg/Kg		105	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0994	0.09624		mg/Kg		97	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U *+	0.199	0.1913		mg/Kg		96	70 - 130	14	35
o-Xylene	<0.00200	U *+	0.0994	0.09619		mg/Kg		96	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-58586/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58813 — **Prep Batch: 58586**

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		07/26/23 16:08	07/31/23 08:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/23 16:08	07/31/23 08:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/23 16:08	07/31/23 08:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	07/26/23 16:08	07/31/23 08:28	1
o-Terphenyl	133	S1+	70 - 130	07/26/23 16:08	07/31/23 08:28	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Lab Sample ID: LCS 880-58586/2-A
Matrix: Solid
Analysis Batch: 58813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58586

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	839.6		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	824.9		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-58586/3-A
Matrix: Solid
Analysis Batch: 58813

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58586

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	840.7		mg/Kg		84	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	797.4		mg/Kg		80	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-31221-A-1-F MS
Matrix: Solid
Analysis Batch: 58813

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	768.4		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1030		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 880-31221-A-1-G MSD
Matrix: Solid
Analysis Batch: 58813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58586

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	<50.3	U	1010	723.4		mg/Kg		72	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	976.5		mg/Kg		97	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Lab Sample ID: 880-31221-A-1-G MSD
Matrix: Solid
Analysis Batch: 58813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58586

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	84		70 - 130

Lab Sample ID: MB 880-58649/1-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58649

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		07/27/23 10:26	07/28/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 08:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/27/23 10:26	07/28/23 08:17	1
o-Terphenyl	100		70 - 130	07/27/23 10:26	07/28/23 08:17	1

Lab Sample ID: LCS 880-58649/2-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	705.1		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	987.8		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-58649/3-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	719.8		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	961.6		mg/Kg		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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

Lab Sample ID: 880-31266-A-1-I MS
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F1	997	649.3	F1	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	109	F1	997	767.3	F1	mg/Kg		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 880-31266-A-1-J MSD
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58649

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	<50.3	U F1	997	644.3	F1	mg/Kg		65	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	109	F1	997	774.1	F1	mg/Kg		67	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58549/1-A
Matrix: Solid
Analysis Batch: 58571

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			07/26/23 21:52	1

Lab Sample ID: LCS 880-58549/2-A
Matrix: Solid
Analysis Batch: 58571

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.7		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-58549/3-A
Matrix: Solid
Analysis Batch: 58571

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	252.0		mg/Kg		101	90 - 110	1	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4991-1 MS
Matrix: Solid
Analysis Batch: 58571

Client Sample ID: P9 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	86.9		250	336.6		mg/Kg		100	90 - 110

Lab Sample ID: 890-4991-1 MSD
Matrix: Solid
Analysis Batch: 58571

Client Sample ID: P9 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	86.9		250	337.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-4991-11 MS
Matrix: Solid
Analysis Batch: 58571

Client Sample ID: D5 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	95.1		248	354.4		mg/Kg		105	90 - 110

Lab Sample ID: 890-4991-11 MSD
Matrix: Solid
Analysis Batch: 58571

Client Sample ID: D5 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	95.1		248	355.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-58548/1-A
Matrix: Solid
Analysis Batch: 58593

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			07/27/23 11:43	1

Lab Sample ID: LCS 880-58548/2-A
Matrix: Solid
Analysis Batch: 58593

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-58548/3-A
Matrix: Solid
Analysis Batch: 58593

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.8		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-31227-A-1-B MS
Matrix: Solid
Analysis Batch: 58593

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	76.3	F1	250	293.9	F1	mg/Kg		87	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-31227-A-1-C MSD
Matrix: Solid
Analysis Batch: 58593

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	76.3	F1	250	296.2	F1	mg/Kg		88	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

GC VOA

Analysis Batch: 58518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	8021B	58579
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	8021B	58579
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	8021B	58579
MB 880-58522/5-A	Method Blank	Total/NA	Solid	8021B	58522
MB 880-58579/5-A	Method Blank	Total/NA	Solid	8021B	58579
LCS 880-58579/1-A	Lab Control Sample	Total/NA	Solid	8021B	58579
LCSD 880-58579/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58579
890-4993-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	58579
890-4993-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58579

Analysis Batch: 58520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	8021B	58581
890-4991-2	K8 FS	Total/NA	Solid	8021B	58581
890-4991-3	H11	Total/NA	Solid	8021B	58581
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	8021B	58581
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	8021B	58581
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	8021B	58581
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	8021B	58581
890-4991-8	WSW01 (P9)	Total/NA	Solid	8021B	58581
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	8021B	58581
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	8021B	58581
890-4991-11	D5 FS	Total/NA	Solid	8021B	58581
890-4991-12	G1 FS	Total/NA	Solid	8021B	58581
890-4991-13	G2 FS	Total/NA	Solid	8021B	58581
890-4991-14	G3 FS	Total/NA	Solid	8021B	58581
890-4991-15	F1 FS	Total/NA	Solid	8021B	58581
890-4991-16	F2 FS	Total/NA	Solid	8021B	58581
890-4991-17	F3 FS	Total/NA	Solid	8021B	58581
890-4991-18	E1 FS	Total/NA	Solid	8021B	58581
890-4991-19	E2 FS	Total/NA	Solid	8021B	58581
890-4991-20	E3 FS	Total/NA	Solid	8021B	58581
MB 880-58524/5-A	Method Blank	Total/NA	Solid	8021B	58524
MB 880-58581/5-A	Method Blank	Total/NA	Solid	8021B	58581
LCS 880-58581/1-A	Lab Control Sample	Total/NA	Solid	8021B	58581
LCSD 880-58581/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58581
890-4991-1 MS	P9 FS	Total/NA	Solid	8021B	58581
890-4991-1 MSD	P9 FS	Total/NA	Solid	8021B	58581

Prep Batch: 58522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58522/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58524/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	5035	
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

GC VOA (Continued)

Prep Batch: 58579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	5035	
MB 880-58579/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58579/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58579/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4993-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4993-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 58581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	5035	
890-4991-2	K8 FS	Total/NA	Solid	5035	
890-4991-3	H11	Total/NA	Solid	5035	
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	5035	
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	5035	
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	5035	
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	5035	
890-4991-8	WSW01 (P9)	Total/NA	Solid	5035	
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	5035	
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	5035	
890-4991-11	D5 FS	Total/NA	Solid	5035	
890-4991-12	G1 FS	Total/NA	Solid	5035	
890-4991-13	G2 FS	Total/NA	Solid	5035	
890-4991-14	G3 FS	Total/NA	Solid	5035	
890-4991-15	F1 FS	Total/NA	Solid	5035	
890-4991-16	F2 FS	Total/NA	Solid	5035	
890-4991-17	F3 FS	Total/NA	Solid	5035	
890-4991-18	E1 FS	Total/NA	Solid	5035	
890-4991-19	E2 FS	Total/NA	Solid	5035	
890-4991-20	E3 FS	Total/NA	Solid	5035	
MB 880-58581/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58581/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58581/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4991-1 MS	P9 FS	Total/NA	Solid	5035	
890-4991-1 MSD	P9 FS	Total/NA	Solid	5035	

Analysis Batch: 58613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	Total BTEX	
890-4991-2	K8 FS	Total/NA	Solid	Total BTEX	
890-4991-3	H11	Total/NA	Solid	Total BTEX	
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	Total BTEX	
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	Total BTEX	
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	Total BTEX	
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	Total BTEX	
890-4991-8	WSW01 (P9)	Total/NA	Solid	Total BTEX	
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	Total BTEX	
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	Total BTEX	
890-4991-11	D5 FS	Total/NA	Solid	Total BTEX	
890-4991-12	G1 FS	Total/NA	Solid	Total BTEX	
890-4991-13	G2 FS	Total/NA	Solid	Total BTEX	
890-4991-14	G3 FS	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

GC VOA (Continued)

Analysis Batch: 58613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-15	F1 FS	Total/NA	Solid	Total BTEX	
890-4991-16	F2 FS	Total/NA	Solid	Total BTEX	
890-4991-17	F3 FS	Total/NA	Solid	Total BTEX	
890-4991-18	E1 FS	Total/NA	Solid	Total BTEX	
890-4991-19	E2 FS	Total/NA	Solid	Total BTEX	
890-4991-20	E3 FS	Total/NA	Solid	Total BTEX	
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	Total BTEX	
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	Total BTEX	
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	8015NM Prep	
890-4991-2	K8 FS	Total/NA	Solid	8015NM Prep	
890-4991-3	H11	Total/NA	Solid	8015NM Prep	
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	8015NM Prep	
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	8015NM Prep	
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	8015NM Prep	
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	8015NM Prep	
890-4991-8	WSW01 (P9)	Total/NA	Solid	8015NM Prep	
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	8015NM Prep	
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	8015NM Prep	
890-4991-11	D5 FS	Total/NA	Solid	8015NM Prep	
890-4991-12	G1 FS	Total/NA	Solid	8015NM Prep	
MB 880-58586/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58586/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31221-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31221-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 58649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-13	G2 FS	Total/NA	Solid	8015NM Prep	
890-4991-14	G3 FS	Total/NA	Solid	8015NM Prep	
890-4991-15	F1 FS	Total/NA	Solid	8015NM Prep	
890-4991-16	F2 FS	Total/NA	Solid	8015NM Prep	
890-4991-17	F3 FS	Total/NA	Solid	8015NM Prep	
890-4991-18	E1 FS	Total/NA	Solid	8015NM Prep	
890-4991-19	E2 FS	Total/NA	Solid	8015NM Prep	
890-4991-20	E3 FS	Total/NA	Solid	8015NM Prep	
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	8015NM Prep	
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	8015NM Prep	
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	8015NM Prep	
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31266-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31266-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

GC Semi VOA

Analysis Batch: 58688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-13	G2 FS	Total/NA	Solid	8015B NM	58649
890-4991-14	G3 FS	Total/NA	Solid	8015B NM	58649
890-4991-15	F1 FS	Total/NA	Solid	8015B NM	58649
890-4991-16	F2 FS	Total/NA	Solid	8015B NM	58649
890-4991-17	F3 FS	Total/NA	Solid	8015B NM	58649
890-4991-18	E1 FS	Total/NA	Solid	8015B NM	58649
890-4991-19	E2 FS	Total/NA	Solid	8015B NM	58649
890-4991-20	E3 FS	Total/NA	Solid	8015B NM	58649
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	8015B NM	58649
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	8015B NM	58649
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	8015B NM	58649
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015B NM	58649
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58649
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58649
880-31266-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	58649
880-31266-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58649

Analysis Batch: 58813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	8015B NM	58586
890-4991-2	K8 FS	Total/NA	Solid	8015B NM	58586
890-4991-3	H11	Total/NA	Solid	8015B NM	58586
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	8015B NM	58586
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	8015B NM	58586
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	8015B NM	58586
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	8015B NM	58586
890-4991-8	WSW01 (P9)	Total/NA	Solid	8015B NM	58586
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	8015B NM	58586
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	8015B NM	58586
890-4991-11	D5 FS	Total/NA	Solid	8015B NM	58586
890-4991-12	G1 FS	Total/NA	Solid	8015B NM	58586
MB 880-58586/1-A	Method Blank	Total/NA	Solid	8015B NM	58586
LCS 880-58586/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58586
LCSD 880-58586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58586
880-31221-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	58586
880-31221-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58586

Analysis Batch: 58893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Total/NA	Solid	8015 NM	
890-4991-2	K8 FS	Total/NA	Solid	8015 NM	
890-4991-3	H11	Total/NA	Solid	8015 NM	
890-4991-4	SW SW02 (H4,H5,G6,G7)	Total/NA	Solid	8015 NM	
890-4991-5	NWSW01 (F1,G1,H2,H3)	Total/NA	Solid	8015 NM	
890-4991-6	NSW02 (G8,H8,I8,J9)	Total/NA	Solid	8015 NM	
890-4991-7	NSW03 (M9,N9,O9,P9)	Total/NA	Solid	8015 NM	
890-4991-8	WSW01 (P9)	Total/NA	Solid	8015 NM	
890-4991-9	SSW03 (J11,K10,L9)	Total/NA	Solid	8015 NM	
890-4991-10	SESW02 (E7,F8,F9,F10)	Total/NA	Solid	8015 NM	
890-4991-11	D5 FS	Total/NA	Solid	8015 NM	
890-4991-12	G1 FS	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

GC Semi VOA (Continued)

Analysis Batch: 58893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-13	G2 FS	Total/NA	Solid	8015 NM	
890-4991-14	G3 FS	Total/NA	Solid	8015 NM	
890-4991-15	F1 FS	Total/NA	Solid	8015 NM	
890-4991-16	F2 FS	Total/NA	Solid	8015 NM	
890-4991-17	F3 FS	Total/NA	Solid	8015 NM	
890-4991-18	E1 FS	Total/NA	Solid	8015 NM	
890-4991-19	E2 FS	Total/NA	Solid	8015 NM	
890-4991-20	E3 FS	Total/NA	Solid	8015 NM	
890-4991-21	NSW04 (G1,F1,E1)	Total/NA	Solid	8015 NM	
890-4991-22	NSW04 (G1,F1,E1)	Total/NA	Solid	8015 NM	
890-4991-23	SSW04 (M9,N9,O9,P9)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-21	NSW04 (G1,F1,E1)	Soluble	Solid	DI Leach	
890-4991-22	NSW04 (G1,F1,E1)	Soluble	Solid	DI Leach	
890-4991-23	SSW04 (M9,N9,O9,P9)	Soluble	Solid	DI Leach	
MB 880-58548/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58548/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58548/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31227-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31227-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 58549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Soluble	Solid	DI Leach	
890-4991-2	K8 FS	Soluble	Solid	DI Leach	
890-4991-3	H11	Soluble	Solid	DI Leach	
890-4991-4	SW SW02 (H4,H5,G6,G7)	Soluble	Solid	DI Leach	
890-4991-5	NWSW01 (F1,G1,H2,H3)	Soluble	Solid	DI Leach	
890-4991-6	NSW02 (G8,H8,I8,J9)	Soluble	Solid	DI Leach	
890-4991-7	NSW03 (M9,N9,O9,P9)	Soluble	Solid	DI Leach	
890-4991-8	WSW01 (P9)	Soluble	Solid	DI Leach	
890-4991-9	SSW03 (J11,K10,L9)	Soluble	Solid	DI Leach	
890-4991-10	SESW02 (E7,F8,F9,F10)	Soluble	Solid	DI Leach	
890-4991-11	D5 FS	Soluble	Solid	DI Leach	
890-4991-12	G1 FS	Soluble	Solid	DI Leach	
890-4991-13	G2 FS	Soluble	Solid	DI Leach	
890-4991-14	G3 FS	Soluble	Solid	DI Leach	
890-4991-15	F1 FS	Soluble	Solid	DI Leach	
890-4991-16	F2 FS	Soluble	Solid	DI Leach	
890-4991-17	F3 FS	Soluble	Solid	DI Leach	
890-4991-18	E1 FS	Soluble	Solid	DI Leach	
890-4991-19	E2 FS	Soluble	Solid	DI Leach	
890-4991-20	E3 FS	Soluble	Solid	DI Leach	
MB 880-58549/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58549/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58549/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4991-1 MS	P9 FS	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

HPLC/IC (Continued)

Leach Batch: 58549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1 MSD	P9 FS	Soluble	Solid	DI Leach	
890-4991-11 MS	D5 FS	Soluble	Solid	DI Leach	
890-4991-11 MSD	D5 FS	Soluble	Solid	DI Leach	

Analysis Batch: 58571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-1	P9 FS	Soluble	Solid	300.0	58549
890-4991-2	K8 FS	Soluble	Solid	300.0	58549
890-4991-3	H11	Soluble	Solid	300.0	58549
890-4991-4	SW SW02 (H4,H5,G6,G7)	Soluble	Solid	300.0	58549
890-4991-5	NWSW01 (F1,G1,H2,H3)	Soluble	Solid	300.0	58549
890-4991-6	NSW02 (G8,H8,I8,J9)	Soluble	Solid	300.0	58549
890-4991-7	NSW03 (M9,N9,O9,P9)	Soluble	Solid	300.0	58549
890-4991-8	WSW01 (P9)	Soluble	Solid	300.0	58549
890-4991-9	SSW03 (J11,K10,L9)	Soluble	Solid	300.0	58549
890-4991-10	SESW02 (E7,F8,F9,F10)	Soluble	Solid	300.0	58549
890-4991-11	D5 FS	Soluble	Solid	300.0	58549
890-4991-12	G1 FS	Soluble	Solid	300.0	58549
890-4991-13	G2 FS	Soluble	Solid	300.0	58549
890-4991-14	G3 FS	Soluble	Solid	300.0	58549
890-4991-15	F1 FS	Soluble	Solid	300.0	58549
890-4991-16	F2 FS	Soluble	Solid	300.0	58549
890-4991-17	F3 FS	Soluble	Solid	300.0	58549
890-4991-18	E1 FS	Soluble	Solid	300.0	58549
890-4991-19	E2 FS	Soluble	Solid	300.0	58549
890-4991-20	E3 FS	Soluble	Solid	300.0	58549
MB 880-58549/1-A	Method Blank	Soluble	Solid	300.0	58549
LCS 880-58549/2-A	Lab Control Sample	Soluble	Solid	300.0	58549
LCSD 880-58549/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58549
890-4991-1 MS	P9 FS	Soluble	Solid	300.0	58549
890-4991-1 MSD	P9 FS	Soluble	Solid	300.0	58549
890-4991-11 MS	D5 FS	Soluble	Solid	300.0	58549
890-4991-11 MSD	D5 FS	Soluble	Solid	300.0	58549

Analysis Batch: 58593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4991-21	NSW04 (G1,F1,E1)	Soluble	Solid	300.0	58548
890-4991-22	NSW04 (G1,F1,E1)	Soluble	Solid	300.0	58548
890-4991-23	SSW04 (M9,N9,O9,P9)	Soluble	Solid	300.0	58548
MB 880-58548/1-A	Method Blank	Soluble	Solid	300.0	58548
LCS 880-58548/2-A	Lab Control Sample	Soluble	Solid	300.0	58548
LCSD 880-58548/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58548
880-31227-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	58548
880-31227-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58548

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: P9 FS
Date Collected: 07/24/23 11:18
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-1
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			5.01 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 22:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 14:45	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 22:12	CH	EET MID

Client Sample ID: K8 FS
Date Collected: 07/24/23 11:21
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-2
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			4.96 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 23:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 15:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 22:32	CH	EET MID

Client Sample ID: H11
Date Collected: 07/24/23 11:24
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-3
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			4.99 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 23:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 15:50	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 22:38	CH	EET MID

Client Sample ID: SW SW02 (H4,H5,G6,G7)
Date Collected: 07/24/23 11:26
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-4
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 23:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: SW SW02 (H4,H5,G6,G7)

Lab Sample ID: 890-4991-4
Matrix: Solid
Date Collected: 07/24/23 11:26
Date Received: 07/25/23 13:10

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			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 16:12	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 22:45	CH	EET MID

Client Sample ID: NWSW01 (F1,G1,H2,H3)

Lab Sample ID: 890-4991-5
Matrix: Solid
Date Collected: 07/24/23 11:29
Date Received: 07/25/23 13:10

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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 00:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 16:34	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 22:52	CH	EET MID

Client Sample ID: NSW02 (G8,H8,I8,J9)

Lab Sample ID: 890-4991-6
Matrix: Solid
Date Collected: 07/24/23 11:33
Date Received: 07/25/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 00:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 16:57	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:12	CH	EET MID

Client Sample ID: NSW03 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-7
Matrix: Solid
Date Collected: 07/24/23 11:37
Date Received: 07/25/23 13:10

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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 00:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 17:19	AJ	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW03 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-7
Matrix: Solid
Date Collected: 07/24/23 11:37
Date Received: 07/25/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:18	CH	EET MID

Client Sample ID: WSW01 (P9)

Lab Sample ID: 890-4991-8
Matrix: Solid
Date Collected: 07/24/23 11:39
Date Received: 07/25/23 13:10

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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 01:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 17:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:25	CH	EET MID

Client Sample ID: SSW03 (J11,K10,L9)

Lab Sample ID: 890-4991-9
Matrix: Solid
Date Collected: 07/24/23 11:42
Date Received: 07/25/23 13:10

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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 01:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 18:04	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:32	CH	EET MID

Client Sample ID: SESW02 (E7,F8,F9,F10)

Lab Sample ID: 890-4991-10
Matrix: Solid
Date Collected: 07/24/23 11:45
Date Received: 07/25/23 13:10

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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 01:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 18:26	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:38	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: D5 FS
Date Collected: 07/24/23 11:48
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-11
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			5.02 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 03:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 18:48	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/26/23 23:45	CH	EET MID

Client Sample ID: G1 FS
Date Collected: 07/24/23 11:51
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-12
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 03:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58586	07/26/23 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 19:09	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:05	CH	EET MID

Client Sample ID: G2 FS
Date Collected: 07/24/23 11:54
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-13
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 04:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 14:18	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:11	CH	EET MID

Client Sample ID: G3 FS
Date Collected: 07/24/23 11:57
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-14
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			5.00 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 04:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: G3 FS
Date Collected: 07/24/23 11:57
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-14
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			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 14:42	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:31	CH	EET MID

Client Sample ID: F1 FS
Date Collected: 07/24/23 12:01
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-15
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			5.01 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 04:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 15:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:38	CH	EET MID

Client Sample ID: F2 FS
Date Collected: 07/24/23 12:04
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-16
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 05:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 15:51	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:45	CH	EET MID

Client Sample ID: F3 FS
Date Collected: 07/24/23 12:07
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-17
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			4.96 g	5 mL	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 05:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 16:13	AJ	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: F3 FS
Date Collected: 07/24/23 12:07
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-17
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			4.96 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:51	CH	EET MID

Client Sample ID: E1 FS
Date Collected: 07/24/23 12:11
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-18
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 05:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 16:35	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 00:58	CH	EET MID

Client Sample ID: E2 FS
Date Collected: 07/24/23 12:14
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-19
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 06:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 16:57	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		10			58571	07/27/23 01:04	CH	EET MID

Client Sample ID: E3 FS
Date Collected: 07/24/23 12:17
Date Received: 07/25/23 13:10

Lab Sample ID: 890-4991-20
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	58581	07/26/23 15:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/27/23 06:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 17:20	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58549	07/26/23 09:58	KS	EET MID
Soluble	Analysis	300.0		1			58571	07/27/23 01:11	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Client Sample ID: NSW04 (G1,F1,E1)

Lab Sample ID: 890-4991-21

Date Collected: 07/24/23 12:21
Date Received: 07/25/23 13:10

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			5.01 g	5 mL	58579	07/26/23 15:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58518	07/27/23 05:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 17:42	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58548	07/26/23 09:56	KS	EET MID
Soluble	Analysis	300.0		1			58593	07/27/23 13:12	CH	EET MID

Client Sample ID: NSW04 (G1,F1,E1)

Lab Sample ID: 890-4991-22

Date Collected: 07/24/23 12:24
Date Received: 07/25/23 13:10

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	58579	07/26/23 15:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58518	07/27/23 06:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 18:04	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58548	07/26/23 09:56	KS	EET MID
Soluble	Analysis	300.0		1			58593	07/27/23 13:19	CH	EET MID

Client Sample ID: SSW04 (M9,N9,O9,P9)

Lab Sample ID: 890-4991-23

Date Collected: 07/24/23 12:28
Date Received: 07/25/23 13:10

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			4.95 g	5 mL	58579	07/26/23 15:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58518	07/27/23 06:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58613	07/27/23 07:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			58893	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 18:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58548	07/26/23 09:56	KS	EET MID
Soluble	Analysis	300.0		1			58593	07/27/23 13:26	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4991-1
SDG: KH237008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4991-1	P9 FS	Solid	07/24/23 11:18	07/25/23 13:10	4
890-4991-2	K8 FS	Solid	07/24/23 11:21	07/25/23 13:10	4
890-4991-3	H11	Solid	07/24/23 11:24	07/25/23 13:10	4
890-4991-4	SW SW02 (H4,H5,G6,G7)	Solid	07/24/23 11:26	07/25/23 13:10	0
890-4991-5	NWSW01 (F1,G1,H2,H3)	Solid	07/24/23 11:29	07/25/23 13:10	0
890-4991-6	NSW02 (G8,H8,I8,J9)	Solid	07/24/23 11:33	07/25/23 13:10	0
890-4991-7	NSW03 (M9,N9,O9,P9)	Solid	07/24/23 11:37	07/25/23 13:10	0
890-4991-8	WSW01 (P9)	Solid	07/24/23 11:39	07/25/23 13:10	0
890-4991-9	SSW03 (J11,K10,L9)	Solid	07/24/23 11:42	07/25/23 13:10	0
890-4991-10	SESW02 (E7,F8,F9,F10)	Solid	07/24/23 11:45	07/25/23 13:10	0
890-4991-11	D5 FS	Solid	07/24/23 11:48	07/25/23 13:10	6
890-4991-12	G1 FS	Solid	07/24/23 11:51	07/25/23 13:10	7
890-4991-13	G2 FS	Solid	07/24/23 11:54	07/25/23 13:10	7
890-4991-14	G3 FS	Solid	07/24/23 11:57	07/25/23 13:10	7
890-4991-15	F1 FS	Solid	07/24/23 12:01	07/25/23 13:10	7
890-4991-16	F2 FS	Solid	07/24/23 12:04	07/25/23 13:10	7
890-4991-17	F3 FS	Solid	07/24/23 12:07	07/25/23 13:10	7
890-4991-18	E1 FS	Solid	07/24/23 12:11	07/25/23 13:10	7
890-4991-19	E2 FS	Solid	07/24/23 12:14	07/25/23 13:10	7
890-4991-20	E3 FS	Solid	07/24/23 12:17	07/25/23 13:10	7
890-4991-21	NSW04 (G1,F1,E1)	Solid	07/24/23 12:21	07/25/23 13:10	0 - 4
890-4991-22	NSW04 (G1,F1,E1)	Solid	07/24/23 12:24	07/25/23 13:10	4 - 7
890-4991-23	SSW04 (M9,N9,O9,P9)	Solid	07/24/23 12:28	07/25/23 13:10	0 - 4

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Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	Joseph Guennier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon

Work Order Comments

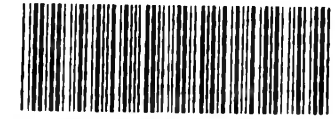
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fighting Okra 7H	Turn Around	
Project Number:	KH227088	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	2 day
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM017
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

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



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
P9 FS	So:l	7-24-23	11:18	4'	Comp	1		✓	✓	✓
K8 FS			11:21	4'		1		✓	✓	✓
H11 FS			11:24	4'		1		✓	✓	✓
SWSW02 (H4,H5,G6,G7)			11:26	0-4		1		✓	✓	✓
NWSW01 (F1,G1,H2,H3)			11:29	0-4		1		✓	✓	✓
NSW02 (G8,H8,I8,J9)			11:33	0-4		1		✓	✓	✓
NSW03 (M9,N9,O9,P9)			11:37	0-4		1		✓	✓	✓
WSW01 (P9)			11:39	0-4		1		✓	✓	✓
SSW03 (J11,K10,L9)			11:42	0-4		1		✓	✓	✓
SESW02 (E7,F8,F9,F10)			11:45	0-4		1		✓	✓	✓

Sample Comments

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.25.23 1310			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
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8/1/2023
Released to Imaging: 3/1/2024 11:35:47 AM

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon.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:	Fighting Okra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	2 day
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:		

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
~~SSW04(FM9,N9,09~~	~~So:l~~	~~7-24-23~~		~~0-4~~	~~Comp~~	1		✓	✓	✓	
D5 FS	So:l	7-24-23	11:48	6'		1		✓	✓	✓	
G1 FS			11:51	7'		1		✓	✓	✓	
G2 FS			11:54	7'		1		✓	✓	✓	
G3 FS			11:57	7'		1		✓	✓	✓	
~~G4 FS~~				7'		1					
F1 FS			12:01	7'		1		✓	✓	✓	
F2 FS			12:04	7'		1		✓	✓	✓	
F3 FS			12:07	7'		1		✓	✓	✓	
E1 FS			12:11	7'		1		✓	✓	✓	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 B Mullen	Cole Cup	7.25.23 13:20			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St.	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon.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:	Fighting Okra 7H	Turn Around	
Project Number:	KH237608	☐ Routine ☑ Rush	Pres. Code
Project Location:	Lea County	Due Date:	2 day
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
E2 FS	Soil	7-24-23	12:14	7	Comp	1	✓	✓	✓	
E3 FS		7-24-23	12:17	7	Comp	1	✓	✓	✓	
NSW04 (G1 F1 E1)			12:21	0-4	Comp	1	✓	✓	✓	
NSW04 (G1 F1 E1)			12:24	4-7	Comp	1	✓	✓	✓	
SSW04 (M9, N9, O9, P9)			12:28	04	Comp	1	✓	✓	✓	

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

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	B Mabee	Cloe Cuy	7-25-23 1310			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4991-1
SDG Number: KH237008

Login Number: 4991
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: Terracon Consulting Eng & Scientists

Job Number: 890-4991-1
SDG Number: KH237008

Login Number: 4991
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/26/23 10:54 AM

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: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/4/2023 6:05:55 PM

JOB DESCRIPTION

Fighting Okra
SDG NUMBER KH237008

JOB NUMBER

890-5017-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 5/1/2024 11:33:47 AM

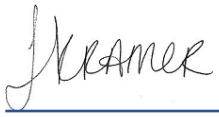
Eurofins Carlsbad

Job Notes

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

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Job ID: 890-5017-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5017-1

Receipt
The samples were received on 8/1/2023 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H7 FS (890-5017-1), H10 FS (890-5017-2), I8 FS (890-5017-3), I9 FS (890-5017-4), I10 FS (890-5017-5), J8 FS (890-5017-6), J9 FS (890-5017-7), J10 FS (890-5017-8), NSW05 (K9,L9) (890-5017-9) and K9 FS (890-5017-10).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-59071/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: J9 FS (890-5017-7) and J10 FS (890-5017-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59104 and analytical batch 880-59073 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The method blank for preparation batch 880-59104 and analytical batch 880-59073 contained o-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59073 recovered above the upper control limit for m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59073/51).

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-59245 and analytical batch 880-59175 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59297 and analytical batch 880-59296 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.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59173 and analytical batch 880-59168 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: H7 FS

Date Collected: 07/31/23 09:46
Date Received: 08/01/23 08:40
Sample Depth: 4

Lab Sample ID: 890-5017-1

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		08/02/23 10:36	08/02/23 22:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/02/23 10:36	08/02/23 22:28	1
Ethylbenzene	**0.00453**	**F1**	0.00198		mg/Kg		08/02/23 10:36	08/02/23 22:28	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396		mg/Kg		08/02/23 10:36	08/02/23 22:28	1
o-Xylene	**0.0101**	**F1**	0.00198		mg/Kg		08/02/23 10:36	08/02/23 22:28	1
Xylenes, Total	**0.0101**	**F1**	0.00396		mg/Kg		08/02/23 10:36	08/02/23 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:28*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0146**		0.00396		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1640**		49.9		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 11:54	1
Diesel Range Organics (Over C10-C28)	**1640**		49.9		mg/Kg		08/03/23 08:35	08/03/23 11:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/23 08:35	08/03/23 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/03/23 08:35*	*08/03/23 11:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/03/23 08:35*	*08/03/23 11:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		5.04		mg/Kg			08/02/23 13:58	1

Client Sample ID: H10 FS

Date Collected: 07/31/23 09:44
Date Received: 08/01/23 08:40
Sample Depth: 7

Lab Sample ID: 890-5017-2

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		08/02/23 10:36	08/02/23 22:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/02/23 10:36	08/02/23 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/02/23 10:36	08/02/23 22:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/02/23 10:36	08/02/23 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/02/23 10:36	08/02/23 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/02/23 10:36	08/02/23 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:48*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: H10 FS

Date Collected: 07/31/23 09:44
Date Received: 08/01/23 08:40
Sample Depth: 7

Lab Sample ID: 890-5017-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:48*	*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			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**164**		49.9		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 12:18	1
Diesel Range Organics (Over C10-C28)	**164**		49.9		mg/Kg		08/03/23 08:35	08/03/23 12:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/23 08:35	08/03/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/03/23 08:35*	*08/03/23 12:18*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/03/23 08:35*	*08/03/23 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20600**		99.6		mg/Kg			08/02/23 14:13	20

Client Sample ID: I8 FS

Date Collected: 07/31/23 12:34
Date Received: 08/01/23 08:40
Sample Depth: 4

Lab Sample ID: 890-5017-3

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		08/02/23 10:36	08/02/23 23:08	1
Toluene	**0.00317**		0.00200		mg/Kg		08/02/23 10:36	08/02/23 23:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/23 10:36	08/02/23 23:08	1
m-Xylene & p-Xylene	**0.00692**		0.00401		mg/Kg		08/02/23 10:36	08/02/23 23:08	1
o-Xylene	**0.00364**		0.00200		mg/Kg		08/02/23 10:36	08/02/23 23:08	1
Xylenes, Total	**0.0106**		0.00401		mg/Kg		08/02/23 10:36	08/02/23 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:08*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0137**		0.00401		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**401**		50.0		mg/Kg			08/03/23 21:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: I8 FS

Date Collected: 07/31/23 12:34
Date Received: 08/01/23 08:40
Sample Depth: 4

Lab Sample ID: 890-5017-3

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		08/03/23 08:35	08/03/23 12:41	1
Diesel Range Organics (Over C10-C28)	**401**		50.0		mg/Kg		08/03/23 08:35	08/03/23 12:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 08:35	08/03/23 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*08/03/23 08:35*	*08/03/23 12:41*	*1*
o-Terphenyl	*78*		*70 - 130*	*08/03/23 08:35*	*08/03/23 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4510**		49.7		mg/Kg			08/02/23 14:18	10

Client Sample ID: I9 FS

Date Collected: 07/31/23 09:35
Date Received: 08/01/23 08:40
Sample Depth: 4

Lab Sample ID: 890-5017-4

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		08/02/23 10:36	08/02/23 23:29	1
Toluene	**0.00374**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:29	1
Ethylbenzene	**0.00276**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/02/23 10:36	08/02/23 23:29	1
o-Xylene	**0.0111**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:29	1
Xylenes, Total	**0.0111**		0.00398		mg/Kg		08/02/23 10:36	08/02/23 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:29*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0176**		0.00398		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1600**		49.9		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 13:04	1
Diesel Range Organics (Over C10-C28)	**1600**		49.9		mg/Kg		08/03/23 08:35	08/03/23 13:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/23 08:35	08/03/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:04*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:04*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: I9 FS

Lab Sample ID: 890-5017-4
Matrix: Solid
Date Collected: 07/31/23 09:35
Date Received: 08/01/23 08:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3550**		25.2		mg/Kg			08/02/23 14:23	5

Client Sample ID: I10 FS

Lab Sample ID: 890-5017-5
Matrix: Solid
Date Collected: 07/31/23 12:23
Date Received: 08/01/23 08:40
Sample Depth: 4

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		08/02/23 10:36	08/02/23 23:49	1
Toluene	**0.00812**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:49	1
Ethylbenzene	**0.0123**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:49	1
m-Xylene & p-Xylene	**0.0677**		0.00398		mg/Kg		08/02/23 10:36	08/02/23 23:49	1
o-Xylene	**0.0228**		0.00199		mg/Kg		08/02/23 10:36	08/02/23 23:49	1
Xylenes, Total	**0.0905**		0.00398		mg/Kg		08/02/23 10:36	08/02/23 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:49*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/02/23 10:36*	*08/02/23 23:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.111**		0.00398		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2580**		49.8		mg/Kg			08/03/23 21:18	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 F1	49.8		mg/Kg		08/03/23 08:35	08/03/23 10:43	1
Diesel Range Organics (Over C10-C28)	**2580**	**F1**	49.8		mg/Kg		08/03/23 08:35	08/03/23 10:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/23 08:35	08/03/23 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/03/23 08:35*	*08/03/23 10:43*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/03/23 08:35*	*08/03/23 10:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4000**		25.0		mg/Kg			08/02/23 14:28	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: J8 FS

Lab Sample ID: 890-5017-6
Matrix: Solid
Date Collected: 07/31/23 13:11
Date Received: 08/01/23 08:40
Sample Depth: 4

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		08/02/23 10:36	08/03/23 00:10	1
Toluene	**0.0435**		0.00200		mg/Kg		08/02/23 10:36	08/03/23 00:10	1
Ethylbenzene	**0.0309**		0.00200		mg/Kg		08/02/23 10:36	08/03/23 00:10	1
m-Xylene & p-Xylene	**0.0981**		0.00401		mg/Kg		08/02/23 10:36	08/03/23 00:10	1
o-Xylene	**0.0606**		0.00200		mg/Kg		08/02/23 10:36	08/03/23 00:10	1
Xylenes, Total	**0.159**		0.00401		mg/Kg		08/02/23 10:36	08/03/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/02/23 10:36*	*08/03/23 00:10*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/02/23 10:36*	*08/03/23 00:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.233**		0.00401		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1780**		49.9		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 13:28	1
Diesel Range Organics (Over C10-C28)	**1780**		49.9		mg/Kg		08/03/23 08:35	08/03/23 13:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/23 08:35	08/03/23 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:28*	*1*
o-Terphenyl	*81*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1840**		25.0		mg/Kg			08/02/23 14:43	5

Client Sample ID: J9 FS

Lab Sample ID: 890-5017-7
Matrix: Solid
Date Collected: 07/31/23 12:29
Date Received: 08/01/23 08:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00294**		0.00202		mg/Kg		08/02/23 10:36	08/03/23 00:30	1
Toluene	**0.0501**		0.00202		mg/Kg		08/02/23 10:36	08/03/23 00:30	1
Ethylbenzene	**0.126**		0.0398		mg/Kg		08/04/23 08:20	08/04/23 16:07	20
m-Xylene & p-Xylene	**0.653**		0.0795		mg/Kg		08/04/23 08:20	08/04/23 16:07	20
o-Xylene	**0.198**		0.0398		mg/Kg		08/04/23 08:20	08/04/23 16:07	20
Xylenes, Total	**0.851**		0.0795		mg/Kg		08/04/23 08:20	08/04/23 16:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*428*	*S1+*	*70 - 130*	*08/02/23 10:36*	*08/03/23 00:30*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: J9 FS

Lab Sample ID: 890-5017-7
Matrix: Solid
Date Collected: 07/31/23 12:29
Date Received: 08/01/23 08:40
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/02/23 10:36*	*08/03/23 00:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.03**		0.0795		mg/Kg			08/03/23 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2890**		49.9		mg/Kg			08/03/23 21:18	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	**203**		49.9		mg/Kg		08/03/23 08:35	08/03/23 13:53	1
Diesel Range Organics (Over C10-C28)	**2690**		49.9		mg/Kg		08/03/23 08:35	08/03/23 13:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/23 08:35	08/03/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:53*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/03/23 08:35*	*08/03/23 13:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4440**		25.1		mg/Kg			08/02/23 14:48	5

Client Sample ID: J10 FS

Lab Sample ID: 890-5017-8
Matrix: Solid
Date Collected: 07/31/23 12:25
Date Received: 08/01/23 08:40
Sample Depth: 4

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		08/04/23 08:20	08/04/23 15:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 08:20	08/04/23 15:26	1
Ethylbenzene	**0.00267**		0.00199		mg/Kg		08/04/23 08:20	08/04/23 15:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 08:20	08/04/23 15:26	1
o-Xylene	**0.00996**		0.00199		mg/Kg		08/04/23 08:20	08/04/23 15:26	1
Xylenes, Total	**0.00996**		0.00398		mg/Kg		08/04/23 08:20	08/04/23 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/04/23 08:20*	*08/04/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/04/23 08:20*	*08/04/23 15:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0126**		0.00398		mg/Kg			08/04/23 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2190**		49.8		mg/Kg			08/03/23 21:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: J10 FS

Lab Sample ID: 890-5017-8
Matrix: Solid
Date Collected: 07/31/23 12:25
Date Received: 08/01/23 08:40
Sample Depth: 4

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		08/03/23 08:35	08/03/23 14:18	1
Diesel Range Organics (Over C10-C28)	**2190**		49.8		mg/Kg		08/03/23 08:35	08/03/23 14:18	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/23 08:35	08/03/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/03/23 08:35*	*08/03/23 14:18*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/03/23 08:35*	*08/03/23 14:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3300**		25.2		mg/Kg			08/02/23 14:53	5

Client Sample ID: NSW05 (K9,L9)

Lab Sample ID: 890-5017-9
Matrix: Solid
Date Collected: 07/31/23 12:49
Date Received: 08/01/23 08:40
Sample Depth: 4 - 7

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		08/04/23 08:20	08/04/23 15:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 08:20	08/04/23 15:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 08:20	08/04/23 15:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/04/23 08:20	08/04/23 15:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 08:20	08/04/23 15:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/04/23 08:20	08/04/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/04/23 08:20*	*08/04/23 15:46*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/04/23 08:20*	*08/04/23 15:46*	*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			08/04/23 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**460**		50.0		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 14:44	1
Diesel Range Organics (Over C10-C28)	**460**		50.0		mg/Kg		08/03/23 08:35	08/03/23 14:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 08:35	08/03/23 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*08/03/23 08:35*	*08/03/23 14:44*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/03/23 08:35*	*08/03/23 14:44*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: NSW05 (K9,L9)

Lab Sample ID: 890-5017-9
Matrix: Solid
Date Collected: 07/31/23 12:49
Date Received: 08/01/23 08:40
Sample Depth: 4 - 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		24.8		mg/Kg			08/02/23 14:58	5

Client Sample ID: K9 FS

Lab Sample ID: 890-5017-10
Matrix: Solid
Date Collected: 07/31/23 09:40
Date Received: 08/01/23 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		08/03/23 12:39	08/04/23 04:48	25
Toluene	**0.153**		0.0498		mg/Kg		08/03/23 12:39	08/04/23 04:48	25
Ethylbenzene	**0.158**	***-**	0.0498		mg/Kg		08/03/23 12:39	08/04/23 04:48	25
m-Xylene & p-Xylene	**0.517**		0.0996		mg/Kg		08/03/23 12:39	08/04/23 04:48	25
o-Xylene	**0.229**		0.0498		mg/Kg		08/03/23 12:39	08/04/23 04:48	25
Xylenes, Total	**0.746**		0.0996		mg/Kg		08/03/23 12:39	08/04/23 04:48	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/03/23 12:39*	*08/04/23 04:48*	*25*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*08/03/23 12:39*	*08/04/23 04:48*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.06**		0.0996		mg/Kg			08/04/23 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1170**		50.0		mg/Kg			08/03/23 21:18	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		08/03/23 08:35	08/03/23 15:10	1
Diesel Range Organics (Over C10-C28)	**1170**		50.0		mg/Kg		08/03/23 08:35	08/03/23 15:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 08:35	08/03/23 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/03/23 08:35*	*08/03/23 15:10*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/03/23 08:35*	*08/03/23 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**		5.01		mg/Kg			08/03/23 12:28	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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)
880-31327-A-1-A MS	Matrix Spike	85	105
880-31327-A-1-B MSD	Matrix Spike Duplicate	106	101
890-5003-A-9-C MS	Matrix Spike	71	123
890-5003-A-9-D MSD	Matrix Spike Duplicate	92	101
890-5017-1	H7 FS	93	116
890-5017-1 MS	H7 FS	108	121
890-5017-1 MSD	H7 FS	116	108
890-5017-2	H10 FS	99	78
890-5017-3	I8 FS	99	84
890-5017-4	I9 FS	125	108
890-5017-5	I10 FS	116	104
890-5017-6	J8 FS	109	110
890-5017-7	J9 FS	428 S1+	98
890-5017-8	J10 FS	94	105
890-5017-9	NSW05 (K9,L9)	99	115
890-5017-10	K9 FS	103	79
LCS 880-59104/1-A	Lab Control Sample	114	119
LCS 880-59245/1-A	Lab Control Sample	89	99
LCS 880-59297/1-A	Lab Control Sample	98	101
LCSD 880-59104/2-A	Lab Control Sample Dup	119	95
LCSD 880-59245/2-A	Lab Control Sample Dup	90	100
LCSD 880-59297/2-A	Lab Control Sample Dup	100	101
MB 880-59071/5-A	Method Blank	68 S1-	85
MB 880-59104/5-A	Method Blank	70	95
MB 880-59197/5-A	Method Blank	100	107
MB 880-59245/5-A	Method Blank	101	129
MB 880-59297/5-A	Method Blank	82	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)
890-5017-1	H7 FS	99	95
890-5017-2	H10 FS	83	87
890-5017-3	I8 FS	75	78
890-5017-4	I9 FS	88	89
890-5017-5	I10 FS	81	82
890-5017-5 MS	I10 FS	84	78
890-5017-5 MSD	I10 FS	84	78
890-5017-6	J8 FS	80	81
890-5017-7	J9 FS	94	90
890-5017-8	J10 FS	85	85
890-5017-9	NSW05 (K9,L9)	78	80
890-5017-10	K9 FS	93	92

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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)								
LCS 880-59173/2-A	Lab Control Sample	104	92								
LCSD 880-59173/3-A	Lab Control Sample Dup	88	82								
MB 880-59173/1-A	Method Blank	105	115								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59071/5-A
Matrix: Solid
Analysis Batch: 59073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/23 08:20	08/02/23 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/23 08:20	08/02/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/23 08:20	08/02/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/23 08:20	08/02/23 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/23 08:20	08/02/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/23 08:20	08/02/23 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*08/02/23 08:20*	*08/02/23 11:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/02/23 08:20*	*08/02/23 11:30*	*1*

Lab Sample ID: MB 880-59104/5-A
Matrix: Solid
Analysis Batch: 59073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/23 10:36	08/02/23 22:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/23 10:36	08/02/23 22:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/23 10:36	08/02/23 22:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/23 10:36	08/02/23 22:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/23 10:36	08/02/23 22:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/23 10:36	08/02/23 22:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:06*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/02/23 10:36*	*08/02/23 22:06*	*1*

Lab Sample ID: LCS 880-59104/1-A
Matrix: Solid
Analysis Batch: 59073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09318		mg/Kg		93	70 - 130
Toluene	0.100	0.08779		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09458		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1980		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09873		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 880-59104/2-A
Matrix: Solid
Analysis Batch: 59073

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59104

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09112		mg/Kg		91	70 - 130	2	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Lab Sample ID: LCSD 880-59104/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59073 — **Prep Batch: 59104**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08771		mg/Kg		88	70 - 130	0	35
Ethylbenzene			0.100	0.09538		mg/Kg		95	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2008		mg/Kg		100	70 - 130	1	35
o-Xylene			0.100	0.09952		mg/Kg		100	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-5017-1 MS — **Client Sample ID: H7 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59073 — **Prep Batch: 59104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1112		mg/Kg		112	70 - 130
Toluene	<0.00198	U	0.0996	0.07594		mg/Kg		74	70 - 130
Ethylbenzene	0.00453	F1	0.0996	0.06692	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.199	0.07692	F1	mg/Kg		37	70 - 130
o-Xylene	0.0101	F1	0.0996	0.07045	F1	mg/Kg		61	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: 890-5017-1 MSD — **Client Sample ID: H7 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59073 — **Prep Batch: 59104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1170		mg/Kg		117	70 - 130	5	35
Toluene	<0.00198	U	0.0998	0.08777		mg/Kg		86	70 - 130	14	35
Ethylbenzene	0.00453	F1	0.0998	0.08289		mg/Kg		79	70 - 130	21	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.09767	F1	mg/Kg		47	70 - 130	24	35
o-Xylene	0.0101	F1	0.0998	0.08798		mg/Kg		78	70 - 130	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-59197/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59175 — **Prep Batch: 59197**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:43	08/03/23 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:43	08/03/23 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:43	08/03/23 13:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/03/23 09:43	08/03/23 13:09	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Lab Sample ID: MB 880-59197/5-A
Matrix: Solid
Analysis Batch: 59175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:43	08/03/23 13:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/03/23 09:43	08/03/23 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/03/23 09:43*	*08/03/23 13:09*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/03/23 09:43*	*08/03/23 13:09*	*1*

Lab Sample ID: MB 880-59245/5-A
Matrix: Solid
Analysis Batch: 59175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/03/23 12:39	08/04/23 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/03/23 12:39	08/04/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/03/23 12:39	08/04/23 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/03/23 12:39	08/04/23 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/03/23 12:39	08/04/23 01:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/03/23 12:39	08/04/23 01:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/03/23 12:39*	*08/04/23 01:15*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*08/03/23 12:39*	*08/04/23 01:15*	*1*

Lab Sample ID: LCS 880-59245/1-A
Matrix: Solid
Analysis Batch: 59175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07626		mg/Kg		76	70 - 130
Toluene	0.100	0.07739		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.06589	*-	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	0.200	0.1506		mg/Kg		75	70 - 130
o-Xylene	0.100	0.07571		mg/Kg		76	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-59245/2-A
Matrix: Solid
Analysis Batch: 59175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59245

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07805		mg/Kg		78	70 - 130	2	35
Toluene	0.100	0.07715		mg/Kg		77	70 - 130	0	35
Ethylbenzene	0.100	0.06720	*-	mg/Kg		67	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1535		mg/Kg		77	70 - 130	2	35
o-Xylene	0.100	0.07862		mg/Kg		79	70 - 130	4	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-5003-A-9-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59175 — **Prep Batch: 59245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.07381		mg/Kg		74	70 - 130
Toluene	<0.00200	U	0.0996	0.08857		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U *-	0.0996	0.07231		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1585		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.0996	0.07578		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	71		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-5003-A-9-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59175 — **Prep Batch: 59245**

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	0.09337		mg/Kg		94	70 - 130	23	35
Toluene	<0.00200	U	0.0990	0.08935		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00200	U *-	0.0990	0.07941		mg/Kg		80	70 - 130	9	35
m-Xylene & p-Xylene	<0.00400	U	0.198	0.1772		mg/Kg		90	70 - 130	11	35
o-Xylene	<0.00200	U	0.0990	0.08878		mg/Kg		90	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-59297/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59296 — **Prep Batch: 59297**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	08/04/23 08:20	08/04/23 12:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/04/23 08:20	08/04/23 12:38	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Lab Sample ID: LCS 880-59297/1-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09635		mg/Kg		96	70 - 130		
Toluene			0.100	0.1047		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.09518		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1833		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09115		mg/Kg		91	70 - 130		

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

Lab Sample ID: LCSD 880-59297/2-A
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1039		mg/Kg		104	70 - 130	8	35
Toluene			0.100	0.1146		mg/Kg		115	70 - 130	9	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2014		mg/Kg		101	70 - 130	9	35
o-Xylene			0.100	0.1002		mg/Kg		100	70 - 130	9	35

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

Lab Sample ID: 880-31327-A-1-A MS
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 59297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1	0.0996	0.06489	F1	mg/Kg		64	70 - 130		
Toluene	<0.00198	U F1 F2	0.0996	0.05661	F1	mg/Kg		57	70 - 130		
Ethylbenzene	<0.00198	U F1 F2	0.0996	0.04217	F1	mg/Kg		42	70 - 130		
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.199	0.07826	F1	mg/Kg		39	70 - 130		
o-Xylene	<0.00198	U F1 F2	0.0996	0.03728	F1	mg/Kg		37	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-31327-A-1-B MSD
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 59297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0994	0.04746	F1	mg/Kg		47	70 - 130	31	35
Toluene	<0.00198	U F1 F2	0.0994	0.03823	F1 F2	mg/Kg		38	70 - 130	39	35
Ethylbenzene	<0.00198	U F1 F2	0.0994	0.02058	F1 F2	mg/Kg		21	70 - 130	69	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Lab Sample ID: 880-31327-A-1-B MSD
Matrix: Solid
Analysis Batch: 59296

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 59297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.199	0.04152	F1 F2	mg/Kg		21	70 - 130	61	35
o-Xylene	<0.00198	U F1 F2	0.0994	0.01871	F1 F2	mg/Kg		18	70 - 130	66	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-59173/1-A
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59173

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		08/03/23 07:00	08/03/23 07:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 07:00	08/03/23 07:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 07:00	08/03/23 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/03/23 07:00*	*08/03/23 07:58*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/03/23 07:00*	*08/03/23 07:58*	*1*

Lab Sample ID: LCS 880-59173/2-A
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	758.0		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	903.1		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: LCSD 880-59173/3-A
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	727.3		mg/Kg		73	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	850.8		mg/Kg		85	70 - 130	6	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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

Lab Sample ID: LCSD 880-59173/3-A
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59173

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-5017-5 MS
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: I10 FS
Prep Type: Total/NA
Prep Batch: 59173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	996	685.9	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	2580	F1	996	2899	F1	mg/Kg		32	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-5017-5 MSD
Matrix: Solid
Analysis Batch: 59168

Client Sample ID: I10 FS
Prep Type: Total/NA
Prep Batch: 59173

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	<49.8	U F1	996	674.0	F1	mg/Kg		63	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	2580	F1	996	2914	F1	mg/Kg		33	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59034/1-A
Matrix: Solid
Analysis Batch: 59114

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			08/02/23 13:43	1

Lab Sample ID: LCS 880-59034/2-A
Matrix: Solid
Analysis Batch: 59114

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.0		mg/Kg		95	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-59034/3-A
Matrix: Solid
Analysis Batch: 59114

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	237.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-5017-1 MS
Matrix: Solid
Analysis Batch: 59114

Client Sample ID: H7 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102		252	347.7		mg/Kg		98	90 - 110

Lab Sample ID: 890-5017-1 MSD
Matrix: Solid
Analysis Batch: 59114

Client Sample ID: H7 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102		252	347.1		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-59232/1-A
Matrix: Solid
Analysis Batch: 59240

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			08/03/23 10:52	1

Lab Sample ID: LCS 880-59232/2-A
Matrix: Solid
Analysis Batch: 59240

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	244.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-59232/3-A
Matrix: Solid
Analysis Batch: 59240

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-31376-A-2-I MS
Matrix: Solid
Analysis Batch: 59240

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10000		5000	14590		mg/Kg		91	90 - 110

Lab Sample ID: 880-31376-A-2-J MSD
Matrix: Solid
Analysis Batch: 59240

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10000		5000	14590		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

GC VOA

Prep Batch: 59071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59071/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 59073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	8021B	59104
890-5017-2	H10 FS	Total/NA	Solid	8021B	59104
890-5017-3	I8 FS	Total/NA	Solid	8021B	59104
890-5017-4	I9 FS	Total/NA	Solid	8021B	59104
890-5017-5	I10 FS	Total/NA	Solid	8021B	59104
890-5017-6	J8 FS	Total/NA	Solid	8021B	59104
890-5017-7	J9 FS	Total/NA	Solid	8021B	59104
MB 880-59071/5-A	Method Blank	Total/NA	Solid	8021B	59071
MB 880-59104/5-A	Method Blank	Total/NA	Solid	8021B	59104
LCS 880-59104/1-A	Lab Control Sample	Total/NA	Solid	8021B	59104
LCSD 880-59104/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59104
890-5017-1 MS	H7 FS	Total/NA	Solid	8021B	59104
890-5017-1 MSD	H7 FS	Total/NA	Solid	8021B	59104

Prep Batch: 59104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	5035	
890-5017-2	H10 FS	Total/NA	Solid	5035	
890-5017-3	I8 FS	Total/NA	Solid	5035	
890-5017-4	I9 FS	Total/NA	Solid	5035	
890-5017-5	I10 FS	Total/NA	Solid	5035	
890-5017-6	J8 FS	Total/NA	Solid	5035	
890-5017-7	J9 FS	Total/NA	Solid	5035	
MB 880-59104/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59104/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59104/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5017-1 MS	H7 FS	Total/NA	Solid	5035	
890-5017-1 MSD	H7 FS	Total/NA	Solid	5035	

Analysis Batch: 59175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-10	K9 FS	Total/NA	Solid	8021B	59245
MB 880-59197/5-A	Method Blank	Total/NA	Solid	8021B	59197
MB 880-59245/5-A	Method Blank	Total/NA	Solid	8021B	59245
LCS 880-59245/1-A	Lab Control Sample	Total/NA	Solid	8021B	59245
LCSD 880-59245/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59245
890-5003-A-9-C MS	Matrix Spike	Total/NA	Solid	8021B	59245
890-5003-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59245

Prep Batch: 59197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59197/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 59220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	Total BTEX	
890-5017-2	H10 FS	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

GC VOA (Continued)

Analysis Batch: 59220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-3	I8 FS	Total/NA	Solid	Total BTEX	
890-5017-4	I9 FS	Total/NA	Solid	Total BTEX	
890-5017-5	I10 FS	Total/NA	Solid	Total BTEX	
890-5017-6	J8 FS	Total/NA	Solid	Total BTEX	
890-5017-7	J9 FS	Total/NA	Solid	Total BTEX	
890-5017-8	J10 FS	Total/NA	Solid	Total BTEX	
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	Total BTEX	
890-5017-10	K9 FS	Total/NA	Solid	Total BTEX	

Prep Batch: 59245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-10	K9 FS	Total/NA	Solid	5035	
MB 880-59245/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59245/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59245/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5003-A-9-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5003-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 59296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-7	J9 FS	Total/NA	Solid	8021B	59297
890-5017-8	J10 FS	Total/NA	Solid	8021B	59297
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	8021B	59297
MB 880-59297/5-A	Method Blank	Total/NA	Solid	8021B	59297
LCS 880-59297/1-A	Lab Control Sample	Total/NA	Solid	8021B	59297
LCSD 880-59297/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59297
880-31327-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	59297
880-31327-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59297

Prep Batch: 59297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-7	J9 FS	Total/NA	Solid	5035	
890-5017-8	J10 FS	Total/NA	Solid	5035	
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	5035	
MB 880-59297/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59297/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59297/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31327-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31327-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 59168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	8015B NM	59173
890-5017-2	H10 FS	Total/NA	Solid	8015B NM	59173
890-5017-3	I8 FS	Total/NA	Solid	8015B NM	59173
890-5017-4	I9 FS	Total/NA	Solid	8015B NM	59173
890-5017-5	I10 FS	Total/NA	Solid	8015B NM	59173
890-5017-6	J8 FS	Total/NA	Solid	8015B NM	59173
890-5017-7	J9 FS	Total/NA	Solid	8015B NM	59173

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

GC Semi VOA (Continued)

Analysis Batch: 59168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-8	J10 FS	Total/NA	Solid	8015B NM	59173
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	8015B NM	59173
890-5017-10	K9 FS	Total/NA	Solid	8015B NM	59173
MB 880-59173/1-A	Method Blank	Total/NA	Solid	8015B NM	59173
LCS 880-59173/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59173
LCSD 880-59173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59173
890-5017-5 MS	I10 FS	Total/NA	Solid	8015B NM	59173
890-5017-5 MSD	I10 FS	Total/NA	Solid	8015B NM	59173

Prep Batch: 59173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	8015NM Prep	
890-5017-2	H10 FS	Total/NA	Solid	8015NM Prep	
890-5017-3	I8 FS	Total/NA	Solid	8015NM Prep	
890-5017-4	I9 FS	Total/NA	Solid	8015NM Prep	
890-5017-5	I10 FS	Total/NA	Solid	8015NM Prep	
890-5017-6	J8 FS	Total/NA	Solid	8015NM Prep	
890-5017-7	J9 FS	Total/NA	Solid	8015NM Prep	
890-5017-8	J10 FS	Total/NA	Solid	8015NM Prep	
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	8015NM Prep	
890-5017-10	K9 FS	Total/NA	Solid	8015NM Prep	
MB 880-59173/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59173/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5017-5 MS	I10 FS	Total/NA	Solid	8015NM Prep	
890-5017-5 MSD	I10 FS	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Total/NA	Solid	8015 NM	
890-5017-2	H10 FS	Total/NA	Solid	8015 NM	
890-5017-3	I8 FS	Total/NA	Solid	8015 NM	
890-5017-4	I9 FS	Total/NA	Solid	8015 NM	
890-5017-5	I10 FS	Total/NA	Solid	8015 NM	
890-5017-6	J8 FS	Total/NA	Solid	8015 NM	
890-5017-7	J9 FS	Total/NA	Solid	8015 NM	
890-5017-8	J10 FS	Total/NA	Solid	8015 NM	
890-5017-9	NSW05 (K9,L9)	Total/NA	Solid	8015 NM	
890-5017-10	K9 FS	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Soluble	Solid	DI Leach	
890-5017-2	H10 FS	Soluble	Solid	DI Leach	
890-5017-3	I8 FS	Soluble	Solid	DI Leach	
890-5017-4	I9 FS	Soluble	Solid	DI Leach	
890-5017-5	I10 FS	Soluble	Solid	DI Leach	
890-5017-6	J8 FS	Soluble	Solid	DI Leach	
890-5017-7	J9 FS	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

HPLC/IC (Continued)

Leach Batch: 59034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-8	J10 FS	Soluble	Solid	DI Leach	
890-5017-9	NSW05 (K9,L9)	Soluble	Solid	DI Leach	
MB 880-59034/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59034/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5017-1 MS	H7 FS	Soluble	Solid	DI Leach	
890-5017-1 MSD	H7 FS	Soluble	Solid	DI Leach	

Analysis Batch: 59114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-1	H7 FS	Soluble	Solid	300.0	59034
890-5017-2	H10 FS	Soluble	Solid	300.0	59034
890-5017-3	I8 FS	Soluble	Solid	300.0	59034
890-5017-4	I9 FS	Soluble	Solid	300.0	59034
890-5017-5	I10 FS	Soluble	Solid	300.0	59034
890-5017-6	J8 FS	Soluble	Solid	300.0	59034
890-5017-7	J9 FS	Soluble	Solid	300.0	59034
890-5017-8	J10 FS	Soluble	Solid	300.0	59034
890-5017-9	NSW05 (K9,L9)	Soluble	Solid	300.0	59034
MB 880-59034/1-A	Method Blank	Soluble	Solid	300.0	59034
LCS 880-59034/2-A	Lab Control Sample	Soluble	Solid	300.0	59034
LCSD 880-59034/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59034
890-5017-1 MS	H7 FS	Soluble	Solid	300.0	59034
890-5017-1 MSD	H7 FS	Soluble	Solid	300.0	59034

Leach Batch: 59232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-10	K9 FS	Soluble	Solid	DI Leach	
MB 880-59232/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59232/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59232/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31376-A-2-I MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31376-A-2-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 59240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5017-10	K9 FS	Soluble	Solid	300.0	59232
MB 880-59232/1-A	Method Blank	Soluble	Solid	300.0	59232
LCS 880-59232/2-A	Lab Control Sample	Soluble	Solid	300.0	59232
LCSD 880-59232/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59232
880-31376-A-2-I MS	Matrix Spike	Soluble	Solid	300.0	59232
880-31376-A-2-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	59232

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: H7 FS
Date Collected: 07/31/23 09:46
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-1
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			5.05 g	5 mL	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/02/23 22:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 11:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59114	08/02/23 13:58	CH	EET MID

Client Sample ID: H10 FS
Date Collected: 07/31/23 09:44
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-2
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	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/02/23 22:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	59114	08/02/23 14:13	CH	EET MID

Client Sample ID: I8 FS
Date Collected: 07/31/23 12:34
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-3
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			4.99 g	5 mL	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/02/23 23:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 12:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	59114	08/02/23 14:18	CH	EET MID

Client Sample ID: I9 FS
Date Collected: 07/31/23 09:35
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-4
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			5.03 g	5 mL	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/02/23 23:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: I9 FS
Date Collected: 07/31/23 09:35
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-4
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			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 13:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:23	CH	EET MID

Client Sample ID: I10 FS
Date Collected: 07/31/23 12:23
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-5
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			5.02 g	5 mL	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/02/23 23:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 10:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:28	CH	EET MID

Client Sample ID: J8 FS
Date Collected: 07/31/23 13:11
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-6
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	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/03/23 00:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:43	CH	EET MID

Client Sample ID: J9 FS
Date Collected: 07/31/23 12:29
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-7
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			5.03 g	5 mL	59297	08/04/23 08:20	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	59296	08/04/23 16:07	SM	EET MID
Total/NA	Prep	5035			4.96 g	5 mL	59104	08/02/23 10:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59073	08/03/23 00:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/03/23 10:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: J9 FS

Date Collected: 07/31/23 12:29
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-7

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	8015NM Prep			10.02 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 13:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:48	CH	EET MID

Client Sample ID: J10 FS

Date Collected: 07/31/23 12:25
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-8

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			5.02 g	5 mL	59297	08/04/23 08:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/04/23 15:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/04/23 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 14:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:53	CH	EET MID

Client Sample ID: NSW05 (K9,L9)

Date Collected: 07/31/23 12:49
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-9

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			5.04 g	5 mL	59297	08/04/23 08:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/04/23 15:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/04/23 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 14:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59034	08/02/23 10:30	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59114	08/02/23 14:58	CH	EET MID

Client Sample ID: K9 FS

Date Collected: 07/31/23 09:40
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-10

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			5.02 g	5 mL	59245	08/03/23 12:39	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	59175	08/04/23 04:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59220	08/04/23 10:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			59283	08/03/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59173	08/03/23 08:35	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59168	08/03/23 15:10	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Client Sample ID: K9 FS
Date Collected: 07/31/23 09:40
Date Received: 08/01/23 08:40

Lab Sample ID: 890-5017-10
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	59232	08/03/23 10:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59240	08/03/23 12:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5017-1
SDG: KH237008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5017-1	H7 FS	Solid	07/31/23 09:46	08/01/23 08:40	4
890-5017-2	H10 FS	Solid	07/31/23 09:44	08/01/23 08:40	7
890-5017-3	I8 FS	Solid	07/31/23 12:34	08/01/23 08:40	4
890-5017-4	I9 FS	Solid	07/31/23 09:35	08/01/23 08:40	4
890-5017-5	I10 FS	Solid	07/31/23 12:23	08/01/23 08:40	4
890-5017-6	J8 FS	Solid	07/31/23 13:11	08/01/23 08:40	4
890-5017-7	J9 FS	Solid	07/31/23 12:29	08/01/23 08:40	4
890-5017-8	J10 FS	Solid	07/31/23 12:25	08/01/23 08:40	4
890-5017-9	NSW05 (K9,L9)	Solid	07/31/23 12:49	08/01/23 08:40	4 - 7
890-5017-10	K9 FS	Solid	07/31/23 09:40	08/01/23 08:40	

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	48 hour
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
H7 FS	Soil	7-31-23	9:46	4	Comp	1	✓	✓	✓	
H10 FS		7-31-23	9:44	4	Comp	1	✓	✓	✓	
I8 FS		7-31-23	12:34	4	Comp	1	✓	✓	✓	
I9 FS		7-31-23	9:35	4	Comp	1	✓	✓	✓	
I10 FS		7-31-23	12:23	4	Comp	1	✓	✓	✓	
J8 FS		7-31-23	13:11	4	Comp	1	✓	✓	✓	
J9 FS		7-31-23	12:29	4	Comp	1	✓	✓	✓	
J10 FS		7-31-23	12:25	4	Comp	1	✓	✓	✓	
L9 FS		7-31-23	12:49		Comp					
K9 FS		7-31-23	9:40		Comp					

890-5017 Chain of Custody

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.23 840	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
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8/4/2023
Released to Imaging: 3/1/2024 11:35:47 AM

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8/4/2023

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@

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:	Fighting OKra 7H	Turn Around	
Project Number:	KH237008	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	48hour
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
K9 L9 NSW05	Soil	7-31-23	12:49	4-7	Comp	1		✓	✓	✓	
NSW05 (K9, L9)	Soil	7-31-23	12:49	4-7	Comp	1		✓	✓	✓	

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.23 840	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 10/5/2023 9:03:44 AM

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5017-1
SDG Number: KH237008

Login Number: 5017
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: Terracon Consulting Eng & Scientists

Job Number: 890-5017-1
SDG Number: KH237008

Login Number: 5017
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/02/23 10:57 AM

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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5017-1
SDG Number: KH237008

Login Number: 5017
List Number: 3
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/03/23 09:48 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").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/10/2023 3:03:30 PM

JOB DESCRIPTION

FIGHTING OKRA
SDG NUMBER KH237032

JOB NUMBER

890-5047-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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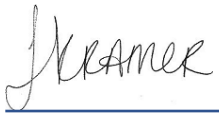
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Laboratory Job ID: 890-5047-1
SDG: KH237032

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Job ID: 890-5047-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5047-1

Receipt
The samples were received on 8/7/2023 4:22 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 1.0°C

Receipt Exceptions
The following were received and analyzed from an unpreserved bulk soil jar: J8 FS (890-5047-1), J9 FS (890-5047-2), J10 FS (890-5047-3), I9 FS (890-5047-4), I10 FS (890-5047-5), H7 FS (890-5047-6), H10 FS (890-5047-7) and NSW 05 (I8,J8) (890-5047-8).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5046-A-1-F). Evidence of matrix interferences is not obvious.

Method 8021B: CCV was biased high for ethylbenzene, o-xylene, and m,p xylenes. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-59696/51)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59696 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-59696/33) and (CCV 880-59696/64).

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 samples were outside control limits: H7 FS (890-5047-6) and (MB 880-59577/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59730 and analytical batch 880-59784 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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: J8 FS

Lab Sample ID: 890-5047-1
Matrix: Solid
Date Collected: 08/07/23 11:32
Date Received: 08/07/23 16:22
Sample Depth: 7

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		08/09/23 13:14	08/10/23 01:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/09/23 13:14	08/10/23 01:30	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		08/09/23 13:14	08/10/23 01:30	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403		mg/Kg		08/09/23 13:14	08/10/23 01:30	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		08/09/23 13:14	08/10/23 01:30	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		08/09/23 13:14	08/10/23 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/09/23 13:14*	*08/10/23 01:30*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/09/23 13:14*	*08/10/23 01:30*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1160**		49.6		mg/Kg			08/10/23 15:53	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	<49.6	U	49.6		mg/Kg		08/07/23 18:10	08/10/23 12:17	1
Diesel Range Organics (Over C10-C28)	**1110**		49.6		mg/Kg		08/07/23 18:10	08/10/23 12:17	1
Oil Range Organics (Over C28-C36)	**52.0**		49.6		mg/Kg		08/07/23 18:10	08/10/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/07/23 18:10*	*08/10/23 12:17*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/07/23 18:10*	*08/10/23 12:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1430**		25.3		mg/Kg			08/09/23 18:09	5

Client Sample ID: J9 FS

Lab Sample ID: 890-5047-2
Matrix: Solid
Date Collected: 08/07/23 11:34
Date Received: 08/07/23 16:22
Sample Depth: 7

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		08/09/23 13:14	08/10/23 01:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/10/23 01:51	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		08/09/23 13:14	08/10/23 01:51	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		08/09/23 13:14	08/10/23 01:51	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/09/23 13:14	08/10/23 01:51	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		08/09/23 13:14	08/10/23 01:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: J9 FS

Date Collected: 08/07/23 11:34
Date Received: 08/07/23 16:22
Sample Depth: 7

Lab Sample ID: 890-5047-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/09/23 13:14*	*08/10/23 01:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/09/23 13:14*	*08/10/23 01:51*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1460**		49.6		mg/Kg			08/10/23 15:53	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	<49.6	U	49.6		mg/Kg		08/07/23 18:10	08/10/23 12:40	1
Diesel Range Organics (Over C10-C28)	**1390**		49.6		mg/Kg		08/07/23 18:10	08/10/23 12:40	1
Oil Range Organics (Over C28-C36)	**68.9**		49.6		mg/Kg		08/07/23 18:10	08/10/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/07/23 18:10*	*08/10/23 12:40*	*1*
o-Terphenyl	*120*		*70 - 130*	*08/07/23 18:10*	*08/10/23 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		25.1		mg/Kg			08/09/23 18:15	5

Client Sample ID: J10 FS

Date Collected: 08/07/23 11:37
Date Received: 08/07/23 16:22
Sample Depth: 7

Lab Sample ID: 890-5047-3

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		08/09/23 13:14	08/10/23 02:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:11	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:11	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:11	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:11	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:11*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:11*	*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			08/10/23 10:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: J10 FS

Date Collected: 08/07/23 11:37
Date Received: 08/07/23 16:22
Sample Depth: 7

Lab Sample ID: 890-5047-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1280**		50.3		mg/Kg			08/10/23 15:53	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	<50.3	U	50.3		mg/Kg		08/07/23 18:10	08/10/23 13:02	1
Diesel Range Organics (Over C10-C28)	**1220**		50.3		mg/Kg		08/07/23 18:10	08/10/23 13:02	1
Oil Range Organics (Over C28-C36)	**64.7**		50.3		mg/Kg		08/07/23 18:10	08/10/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:02*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1450**		24.9		mg/Kg			08/09/23 18:20	5

Client Sample ID: I9 FS

Date Collected: 08/07/23 11:42
Date Received: 08/07/23 16:22
Sample Depth: 7

Lab Sample ID: 890-5047-4
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		08/09/23 13:14	08/10/23 02:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:32	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:32	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:32	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:32	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:32*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:32*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**948**		50.5		mg/Kg			08/10/23 15:53	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	<50.5	U	50.5		mg/Kg		08/07/23 18:10	08/10/23 13:24	1
Diesel Range Organics (Over C10-C28)	**895**		50.5		mg/Kg		08/07/23 18:10	08/10/23 13:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: I9 FS

Lab Sample ID: 890-5047-4
Matrix: Solid
Date Collected: 08/07/23 11:42
Date Received: 08/07/23 16:22
Sample Depth: 7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	**53.2**		50.5		mg/Kg		08/07/23 18:10	08/10/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:24*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**947**		5.00		mg/Kg			08/09/23 18:26	1

Client Sample ID: I10 FS

Lab Sample ID: 890-5047-5
Matrix: Solid
Date Collected: 08/07/23 11:43
Date Received: 08/07/23 16:22
Sample Depth: 7

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		08/09/23 13:14	08/10/23 02:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:52	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:52	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:52	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/09/23 13:14	08/10/23 02:52	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		08/09/23 13:14	08/10/23 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/09/23 13:14*	*08/10/23 02:52*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1650**		50.4		mg/Kg			08/10/23 15:53	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	<50.4	U	50.4		mg/Kg		08/07/23 18:10	08/10/23 13:46	1
Diesel Range Organics (Over C10-C28)	**1570**		50.4		mg/Kg		08/07/23 18:10	08/10/23 13:46	1
Oil Range Organics (Over C28-C36)	**84.4**		50.4		mg/Kg		08/07/23 18:10	08/10/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:46*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/07/23 18:10*	*08/10/23 13:46*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: I10 FS

Lab Sample ID: 890-5047-5
Matrix: Solid
Date Collected: 08/07/23 11:43
Date Received: 08/07/23 16:22
Sample Depth: 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		5.01		mg/Kg			08/09/23 18:32	1

Client Sample ID: H7 FS

Lab Sample ID: 890-5047-6
Matrix: Solid
Date Collected: 08/07/23 11:44
Date Received: 08/07/23 16:22
Sample Depth: 7

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		08/09/23 13:14	08/10/23 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/10/23 04:14	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		08/09/23 13:14	08/10/23 04:14	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		08/09/23 13:14	08/10/23 04:14	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/09/23 13:14	08/10/23 04:14	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		08/09/23 13:14	08/10/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:14*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:14*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**794**		50.2		mg/Kg			08/10/23 15:53	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	<50.2	U	50.2		mg/Kg		08/07/23 18:10	08/10/23 14:08	1
Diesel Range Organics (Over C10-C28)	**742**		50.2		mg/Kg		08/07/23 18:10	08/10/23 14:08	1
Oil Range Organics (Over C28-C36)	**51.6**		50.2		mg/Kg		08/07/23 18:10	08/10/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*08/07/23 18:10*	*08/10/23 14:08*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/07/23 18:10*	*08/10/23 14:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**702**	**F1**	5.03		mg/Kg			08/09/23 18:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: H10 FS

Lab Sample ID: 890-5047-7
Matrix: Solid
Date Collected: 08/07/23 11:46
Date Received: 08/07/23 16:22
Sample Depth: 7

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		08/09/23 13:14	08/10/23 04:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/09/23 13:14	08/10/23 04:34	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		08/09/23 13:14	08/10/23 04:34	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		08/09/23 13:14	08/10/23 04:34	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/09/23 13:14	08/10/23 04:34	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		08/09/23 13:14	08/10/23 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:34*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:34*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**923**		49.6		mg/Kg			08/10/23 15:53	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	<49.6	U	49.6		mg/Kg		08/07/23 18:10	08/10/23 15:02	1
Diesel Range Organics (Over C10-C28)	**865**		49.6		mg/Kg		08/07/23 18:10	08/10/23 15:02	1
Oil Range Organics (Over C28-C36)	**57.8**		49.6		mg/Kg		08/07/23 18:10	08/10/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/07/23 18:10*	*08/10/23 15:02*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/07/23 18:10*	*08/10/23 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**766**		4.97		mg/Kg			08/09/23 18:54	1

Client Sample ID: NSW 05 (I8,J8)

Lab Sample ID: 890-5047-8
Matrix: Solid
Date Collected: 08/07/23 11:48
Date Received: 08/07/23 16:22
Sample Depth: 4 - 7

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		08/09/23 13:14	08/10/23 04:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/09/23 13:14	08/10/23 04:55	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		08/09/23 13:14	08/10/23 04:55	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397		mg/Kg		08/09/23 13:14	08/10/23 04:55	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		08/09/23 13:14	08/10/23 04:55	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		08/09/23 13:14	08/10/23 04:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: NSW 05 (I8,J8)
Date Collected: 08/07/23 11:48
Date Received: 08/07/23 16:22
Sample Depth: 4 - 7

Lab Sample ID: 890-5047-8
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:55*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/09/23 13:14*	*08/10/23 04:55*	*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			08/10/23 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**929**		49.7		mg/Kg			08/10/23 15:53	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	<49.7	U	49.7		mg/Kg		08/07/23 18:10	08/10/23 15:24	1
Diesel Range Organics (Over C10-C28)	**872**		49.7		mg/Kg		08/07/23 18:10	08/10/23 15:24	1
Oil Range Organics (Over C28-C36)	**57.4**		49.7		mg/Kg		08/07/23 18:10	08/10/23 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/07/23 18:10*	*08/10/23 15:24*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/07/23 18:10*	*08/10/23 15:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**867**		5.00		mg/Kg			08/09/23 19:00	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5046-A-1-D MS	Matrix Spike	122	106
890-5046-A-1-E MSD	Matrix Spike Duplicate	125	106
890-5047-1	J8 FS	102	90
890-5047-2	J9 FS	114	97
890-5047-3	J10 FS	107	85
890-5047-4	I9 FS	102	78
890-5047-5	I10 FS	110	100
890-5047-6	H7 FS	94	76
890-5047-7	H10 FS	110	103
890-5047-8	NSW 05 (I8,J8)	87	80
LCS 880-59759/1-A	Lab Control Sample	122	108
LCSD 880-59759/2-A	Lab Control Sample Dup	129	105
MB 880-59705/5-A	Method Blank	72	81
MB 880-59759/5-A	Method Blank	70	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31324-A-32-D MS	Matrix Spike	89	85
880-31324-A-32-E MSD	Matrix Spike Duplicate	88	84
890-5047-1	J8 FS	106	101
890-5047-2	J9 FS	119	120
890-5047-3	J10 FS	104	101
890-5047-4	I9 FS	104	102
890-5047-5	I10 FS	102	96
890-5047-6	H7 FS	130	131 S1+
890-5047-7	H10 FS	97	96
890-5047-8	NSW 05 (I8,J8)	94	92
LCS 880-59577/2-A	Lab Control Sample	106	112
LCSD 880-59577/3-A	Lab Control Sample Dup	106	113
MB 880-59577/1-A	Method Blank	162 S1+	177 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59705/5-A
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/23 09:11	08/09/23 12:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/23 09:11	08/09/23 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/23 09:11	08/09/23 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*08/09/23 09:11*	*08/09/23 12:49*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/09/23 09:11*	*08/09/23 12:49*	*1*

Lab Sample ID: MB 880-59759/5-A
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/09/23 23:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/23 13:14	08/09/23 23:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/23 13:14	08/09/23 23:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*08/09/23 13:14*	*08/09/23 23:27*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/09/23 13:14*	*08/09/23 23:27*	*1*

Lab Sample ID: LCS 880-59759/1-A
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1443	*+	mg/Kg		144	70 - 130
Toluene	0.100	0.1244		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1419	*+	mg/Kg		142	70 - 130
m-Xylene & p-Xylene	0.200	0.3079	*+	mg/Kg		154	70 - 130
o-Xylene	0.100	0.1488	*+	mg/Kg		149	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-59759/2-A
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1358	*+	mg/Kg		136	70 - 130	6	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

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

Lab Sample ID: LCSD 880-59759/2-A
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59759

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1220		mg/Kg		122	70 - 130	2	35
Ethylbenzene			0.100	0.1210		mg/Kg		121	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.2533		mg/Kg		127	70 - 130	19	35
o-Xylene			0.100	0.1252		mg/Kg		125	70 - 130	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-5046-A-1-D MS
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 59759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *+	0.0996	0.1079		mg/Kg		108	70 - 130
Toluene	<0.00201	U	0.0996	0.09455		mg/Kg		95	70 - 130
Ethylbenzene	<0.00201	U *+	0.0996	0.1041		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00402	U *+	0.199	0.2186		mg/Kg		110	70 - 130
o-Xylene	<0.00201	U *+	0.0996	0.1056		mg/Kg		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-5046-A-1-E MSD
Matrix: Solid
Analysis Batch: 59696

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 59759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *+	0.0998	0.1212		mg/Kg		121	70 - 130	12	35
Toluene	<0.00201	U	0.0998	0.1036		mg/Kg		104	70 - 130	9	35
Ethylbenzene	<0.00201	U *+	0.0998	0.1165		mg/Kg		117	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U *+	0.200	0.2462		mg/Kg		123	70 - 130	12	35
o-Xylene	<0.00201	U *+	0.0998	0.1187		mg/Kg		119	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

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

Lab Sample ID: MB 880-59577/1-A
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59577

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		08/07/23 18:10	08/10/23 07:26	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

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

Lab Sample ID: MB 880-59577/1-A
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/23 18:10	08/10/23 07:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/23 18:10	08/10/23 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*08/07/23 18:10*	*08/10/23 07:26*	*1*
o-Terphenyl	*177*	*S1+*	*70 - 130*	*08/07/23 18:10*	*08/10/23 07:26*	*1*

Lab Sample ID: LCS 880-59577/2-A
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	938.0		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-59577/3-A
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59577

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	904.9		mg/Kg		90	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	931.5		mg/Kg		93	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-31324-A-32-D MS
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 59577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	993	1110		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	993	771.8		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

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

Lab Sample ID: 880-31324-A-32-E MSD
Matrix: Solid
Analysis Batch: 59809

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 59577

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	<50.3	U	993	1109		mg/Kg		109	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.3	U	993	773.8		mg/Kg		78	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59730/1-A
Matrix: Solid
Analysis Batch: 59784

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			08/09/23 17:01	1

Lab Sample ID: LCS 880-59730/2-A
Matrix: Solid
Analysis Batch: 59784

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.2		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-59730/3-A
Matrix: Solid
Analysis Batch: 59784

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	230.5		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 890-5047-6 MS
Matrix: Solid
Analysis Batch: 59784

Client Sample ID: H7 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	702	F1	252	917.5	F1	mg/Kg		86	90 - 110

Lab Sample ID: 890-5047-6 MSD
Matrix: Solid
Analysis Batch: 59784

Client Sample ID: H7 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	702	F1	252	914.9	F1	mg/Kg		85	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

GC VOA

Analysis Batch: 59696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	8021B	59759
890-5047-2	J9 FS	Total/NA	Solid	8021B	59759
890-5047-3	J10 FS	Total/NA	Solid	8021B	59759
890-5047-4	I9 FS	Total/NA	Solid	8021B	59759
890-5047-5	I10 FS	Total/NA	Solid	8021B	59759
890-5047-6	H7 FS	Total/NA	Solid	8021B	59759
890-5047-7	H10 FS	Total/NA	Solid	8021B	59759
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	8021B	59759
MB 880-59705/5-A	Method Blank	Total/NA	Solid	8021B	59705
MB 880-59759/5-A	Method Blank	Total/NA	Solid	8021B	59759
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	8021B	59759
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59759
890-5046-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	59759
890-5046-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59759

Prep Batch: 59705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59705/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	5035	
890-5047-2	J9 FS	Total/NA	Solid	5035	
890-5047-3	J10 FS	Total/NA	Solid	5035	
890-5047-4	I9 FS	Total/NA	Solid	5035	
890-5047-5	I10 FS	Total/NA	Solid	5035	
890-5047-6	H7 FS	Total/NA	Solid	5035	
890-5047-7	H10 FS	Total/NA	Solid	5035	
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	5035	
MB 880-59759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5046-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5046-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 59841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	Total BTEX	
890-5047-2	J9 FS	Total/NA	Solid	Total BTEX	
890-5047-3	J10 FS	Total/NA	Solid	Total BTEX	
890-5047-4	I9 FS	Total/NA	Solid	Total BTEX	
890-5047-5	I10 FS	Total/NA	Solid	Total BTEX	
890-5047-6	H7 FS	Total/NA	Solid	Total BTEX	
890-5047-7	H10 FS	Total/NA	Solid	Total BTEX	
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

GC Semi VOA (Continued)

Prep Batch: 59577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-2	J9 FS	Total/NA	Solid	8015NM Prep	
890-5047-3	J10 FS	Total/NA	Solid	8015NM Prep	
890-5047-4	I9 FS	Total/NA	Solid	8015NM Prep	
890-5047-5	I10 FS	Total/NA	Solid	8015NM Prep	
890-5047-6	H7 FS	Total/NA	Solid	8015NM Prep	
890-5047-7	H10 FS	Total/NA	Solid	8015NM Prep	
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	8015NM Prep	
MB 880-59577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31324-A-32-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31324-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	8015B NM	59577
890-5047-2	J9 FS	Total/NA	Solid	8015B NM	59577
890-5047-3	J10 FS	Total/NA	Solid	8015B NM	59577
890-5047-4	I9 FS	Total/NA	Solid	8015B NM	59577
890-5047-5	I10 FS	Total/NA	Solid	8015B NM	59577
890-5047-6	H7 FS	Total/NA	Solid	8015B NM	59577
890-5047-7	H10 FS	Total/NA	Solid	8015B NM	59577
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	8015B NM	59577
MB 880-59577/1-A	Method Blank	Total/NA	Solid	8015B NM	59577
LCS 880-59577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59577
LCSD 880-59577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59577
880-31324-A-32-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59577
880-31324-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59577

Analysis Batch: 59877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Total/NA	Solid	8015 NM	
890-5047-2	J9 FS	Total/NA	Solid	8015 NM	
890-5047-3	J10 FS	Total/NA	Solid	8015 NM	
890-5047-4	I9 FS	Total/NA	Solid	8015 NM	
890-5047-5	I10 FS	Total/NA	Solid	8015 NM	
890-5047-6	H7 FS	Total/NA	Solid	8015 NM	
890-5047-7	H10 FS	Total/NA	Solid	8015 NM	
890-5047-8	NSW 05 (I8,J8)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Soluble	Solid	DI Leach	
890-5047-2	J9 FS	Soluble	Solid	DI Leach	
890-5047-3	J10 FS	Soluble	Solid	DI Leach	
890-5047-4	I9 FS	Soluble	Solid	DI Leach	
890-5047-5	I10 FS	Soluble	Solid	DI Leach	
890-5047-6	H7 FS	Soluble	Solid	DI Leach	
890-5047-7	H10 FS	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

HPLC/IC (Continued)

Leach Batch: 59730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-8	NSW 05 (I8,J8)	Soluble	Solid	DI Leach	
MB 880-59730/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59730/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59730/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5047-6 MS	H7 FS	Soluble	Solid	DI Leach	
890-5047-6 MSD	H7 FS	Soluble	Solid	DI Leach	

Analysis Batch: 59784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5047-1	J8 FS	Soluble	Solid	300.0	59730
890-5047-2	J9 FS	Soluble	Solid	300.0	59730
890-5047-3	J10 FS	Soluble	Solid	300.0	59730
890-5047-4	I9 FS	Soluble	Solid	300.0	59730
890-5047-5	I10 FS	Soluble	Solid	300.0	59730
890-5047-6	H7 FS	Soluble	Solid	300.0	59730
890-5047-7	H10 FS	Soluble	Solid	300.0	59730
890-5047-8	NSW 05 (I8,J8)	Soluble	Solid	300.0	59730
MB 880-59730/1-A	Method Blank	Soluble	Solid	300.0	59730
LCS 880-59730/2-A	Lab Control Sample	Soluble	Solid	300.0	59730
LCSD 880-59730/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59730
890-5047-6 MS	H7 FS	Soluble	Solid	300.0	59730
890-5047-6 MSD	H7 FS	Soluble	Solid	300.0	59730

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: J8 FS
Date Collected: 08/07/23 11:32
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-1
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			4.96 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 01:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 12:17	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		5			59784	08/09/23 18:09	CH	EET MID

Client Sample ID: J9 FS
Date Collected: 08/07/23 11:34
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-2
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			4.99 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 01:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 12:40	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		5			59784	08/09/23 18:15	CH	EET MID

Client Sample ID: J10 FS
Date Collected: 08/07/23 11:37
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-3
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			4.97 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 02:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 13:02	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		5			59784	08/09/23 18:20	CH	EET MID

Client Sample ID: I9 FS
Date Collected: 08/07/23 11:42
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-4
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			4.97 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 02:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: I9 FS
Date Collected: 08/07/23 11:42
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-4
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			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 13:24	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		1			59784	08/09/23 18:26	CH	EET MID

Client Sample ID: I10 FS
Date Collected: 08/07/23 11:43
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-5
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			4.98 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 02:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 13:46	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		1			59784	08/09/23 18:32	CH	EET MID

Client Sample ID: H7 FS
Date Collected: 08/07/23 11:44
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-6
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			5.01 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 04:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 14:08	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		1			59784	08/09/23 18:37	CH	EET MID

Client Sample ID: H10 FS
Date Collected: 08/07/23 11:46
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-7
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	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 15:02	AJ	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Client Sample ID: H10 FS
Date Collected: 08/07/23 11:46
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		1			59784	08/09/23 18:54	CH	EET MID

Client Sample ID: NSW 05 (I8,J8)
Date Collected: 08/07/23 11:48
Date Received: 08/07/23 16:22

Lab Sample ID: 890-5047-8
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			5.04 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 04:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59841	08/10/23 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59877	08/10/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59577	08/07/23 18:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59809	08/10/23 15:24	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59730	08/09/23 09:46	KS	EET MID
Soluble	Analysis	300.0		1			59784	08/09/23 19:00	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5047-1
SDG: KH237032

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5047-1	J8 FS	Solid	08/07/23 11:32	08/07/23 16:22	7
890-5047-2	J9 FS	Solid	08/07/23 11:34	08/07/23 16:22	7
890-5047-3	J10 FS	Solid	08/07/23 11:37	08/07/23 16:22	7
890-5047-4	I9 FS	Solid	08/07/23 11:42	08/07/23 16:22	7
890-5047-5	I10 FS	Solid	08/07/23 11:43	08/07/23 16:22	7
890-5047-6	H7 FS	Solid	08/07/23 11:44	08/07/23 16:22	7
890-5047-7	H10 FS	Solid	08/07/23 11:46	08/07/23 16:22	7
890-5047-8	NSW 05 (I8,J8)	Solid	08/07/23 11:48	08/07/23 16:22	4 - 7

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:

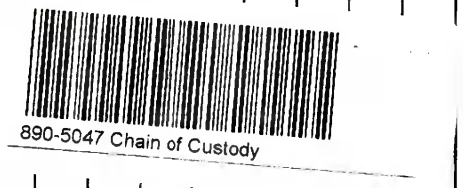
Project Name:	Fighting Okra	Turn Around	
Project Number:	KH237032	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	48 hour
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
J 8 FS	Soil	8-7-23	11:32	7	Comp	1	✓	✓	✓	
J 9 FS			11:34	7		1	✓	✓	✓	
J 10 FS			11:37	7		1	✓	✓	✓	
~~I 8 FS~~			11:39			1	✓	✓	✓	
I 9 FS			11:42	7		1	✓	✓	✓	
I 10 FS			11:43	7		1	✓	✓	✓	
H 7 FS			11:44	5		1	✓	✓	✓	
H 10 FS			11:46	7		1	✓	✓	✓	
N SW 05 (I8, J8)			11:48	4-7		1	✓	✓	✓	



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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.7.23 1622	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
8/10/2023

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5047-1
SDG Number: KH237032

Login Number: 5047
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: Terracon Consulting Eng & Scientists

Job Number: 890-5047-1
SDG Number: KH237032

Login Number: 5047
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/09/23 11:11 AM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/17/2023 10:59:41 AM

JOB DESCRIPTION

FIGHTING OKRA
SDG NUMBER KH237032

JOB NUMBER

890-5078-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

my EOL

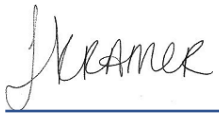
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/17/2023 10:59:41 AM

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

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Laboratory Job ID: 890-5078-1
SDG: KH237032

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

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
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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Job ID: 890-5078-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5078-1

Receipt
The samples were received on 8/11/2023 9:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: G4 FS (890-5078-1), G5 FS (890-5078-2) and G9 FS (890-5078-3).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-60126 and analytical batch 880-60079 was outside the upper 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: CCV inadvertently double spiked. Percent recoveries are based on the amount spiked.(CCV 880-60345/32), (CCV 880-60345/48) and (CCV 880-60345/59)

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 for preparation batch 880-60064 and 880-60064 and analytical batch 880-60267 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: G4 FS (890-5078-1), G5 FS (890-5078-2), G9 FS (890-5078-3), (880-31978-A-1-A), (880-31978-A-1-B MS) and (880-31978-A-1-C MSD).

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Client Sample ID: G4 FS

Date Collected: 08/10/23 07:45
Date Received: 08/11/23 09:53
Sample Depth: 8

Lab Sample ID: 890-5078-1
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		08/14/23 14:57	08/15/23 08:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/14/23 14:57	08/15/23 08:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/14/23 14:57	08/15/23 08:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/14/23 14:57	08/15/23 08:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/14/23 14:57	08/15/23 08:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/14/23 14:57	08/15/23 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/14/23 14:57*	*08/15/23 08:33*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/14/23 14:57*	*08/15/23 08:33*	*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			08/15/23 10:04	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			08/17/23 11:20	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		08/15/23 12:15	08/16/23 16:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 16:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/15/23 12:15*	*08/16/23 16:58*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/15/23 12:15*	*08/16/23 16:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.5**		4.97		mg/Kg			08/15/23 06:09	1

Client Sample ID: G5 FS

Date Collected: 08/10/23 08:12
Date Received: 08/11/23 09:53
Sample Depth: 8

Lab Sample ID: 890-5078-2
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		08/14/23 14:57	08/15/23 08:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/14/23 14:57	08/15/23 08:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/14/23 14:57	08/15/23 08:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/14/23 14:57	08/15/23 08:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/14/23 14:57	08/15/23 08:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/14/23 14:57	08/15/23 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/14/23 14:57*	*08/15/23 08:54*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Client Sample ID: G5 FS

Date Collected: 08/10/23 08:12
Date Received: 08/11/23 09:53
Sample Depth: 8

Lab Sample ID: 890-5078-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/14/23 14:57*	*08/15/23 08:54*	*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			08/15/23 10:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.4**		49.6		mg/Kg			08/17/23 11:20	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	<49.6	U	49.6		mg/Kg		08/15/23 12:15	08/16/23 17:21	1
Diesel Range Organics (Over C10-C28)	**67.4**		49.6		mg/Kg		08/15/23 12:15	08/16/23 17:21	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/15/23 12:15	08/16/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/15/23 12:15*	*08/16/23 17:21*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/15/23 12:15*	*08/16/23 17:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.0**		4.96		mg/Kg			08/15/23 06:19	1

Client Sample ID: G9 FS

Date Collected: 08/10/23 08:42
Date Received: 08/11/23 09:53
Sample Depth: 8

Lab Sample ID: 890-5078-3

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		08/14/23 14:57	08/15/23 09:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 09:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 09:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/14/23 14:57	08/15/23 09:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 09:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/14/23 14:57	08/15/23 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/14/23 14:57*	*08/15/23 09:14*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/23 14:57*	*08/15/23 09:14*	*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			08/15/23 10:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/17/23 11:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Client Sample ID: G9 FS
Date Collected: 08/10/23 08:42
Date Received: 08/11/23 09:53
Sample Depth: 8

Lab Sample ID: 890-5078-3
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	<50.4	U	50.4		mg/Kg		08/15/23 12:15	08/16/23 17:46	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/15/23 12:15	08/16/23 17:46	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/15/23 12:15	08/16/23 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/15/23 12:15*	*08/16/23 17:46*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/15/23 12:15*	*08/16/23 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.8**		4.98		mg/Kg			08/15/23 06:29	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31987-A-21-D MS	Matrix Spike	90	101
880-31987-A-21-E MSD	Matrix Spike Duplicate	89	96
890-5078-1	G4 FS	89	97
890-5078-2	G5 FS	88	97
890-5078-3	G9 FS	92	100
LCS 880-60126/1-A	Lab Control Sample	76	95
LCSD 880-60126/2-A	Lab Control Sample Dup	81	99
MB 880-60096/5-A	Method Blank	97	126
MB 880-60126/5-A	Method Blank	101	135 S1+

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32067-A-7-C MS	Matrix Spike	96	83
880-32067-A-7-D MSD	Matrix Spike Duplicate	96	83
890-5078-1	G4 FS	89	94
890-5078-2	G5 FS	85	89
890-5078-3	G9 FS	84	86
LCS 880-60293/2-A	Lab Control Sample	115	112
LCSD 880-60293/3-A	Lab Control Sample Dup	119	113
MB 880-60293/1-A	Method Blank	88	92

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60096/5-A
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/23 10:03	08/14/23 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/23 10:03	08/14/23 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/23 10:03	08/14/23 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/23 10:03	08/14/23 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/23 10:03	08/14/23 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/23 10:03	08/14/23 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/14/23 10:03*	*08/14/23 12:54*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/14/23 10:03*	*08/14/23 12:54*	*1*

Lab Sample ID: MB 880-60126/5-A
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 00:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/23 14:57	08/15/23 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/23 14:57	08/15/23 00:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/23 14:57	08/15/23 00:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/14/23 14:57*	*08/15/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/14/23 14:57*	*08/15/23 00:48*	*1*

Lab Sample ID: LCS 880-60126/1-A
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1041		mg/Kg		104	70 - 130
Toluene	0.100	0.09940		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.07659		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1602		mg/Kg		80	70 - 130
o-Xylene	0.100	0.07714		mg/Kg		77	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-60126/2-A
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60126

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	2	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

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

Lab Sample ID: LCSD 880-60126/2-A
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60126

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09583		mg/Kg		96	70 - 130	4	35
Ethylbenzene			0.100	0.08153		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1687		mg/Kg		84	70 - 130	5	35
o-Xylene			0.100	0.08155		mg/Kg		82	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-31987-A-21-D MS
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1079		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.0996	0.1012		mg/Kg		102	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.08912		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1904		mg/Kg		96	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09074		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-31987-A-21-E MSD
Matrix: Solid
Analysis Batch: 60079

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60126

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	0.1025		mg/Kg		102	70 - 130	5	35
Toluene	<0.00198	U	0.101	0.09441		mg/Kg		94	70 - 130	7	35
Ethylbenzene	<0.00198	U	0.101	0.08246		mg/Kg		82	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1870		mg/Kg		93	70 - 130	2	35
o-Xylene	<0.00198	U	0.101	0.09106		mg/Kg		91	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-60293/1-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60293

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		08/15/23 12:15	08/16/23 08:13	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

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

Lab Sample ID: MB 880-60293/1-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 08:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/15/23 12:15*	*08/16/23 08:13*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/15/23 12:15*	*08/16/23 08:13*	*1*

Lab Sample ID: LCS 880-60293/2-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1144		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1120		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-60293/3-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1100		mg/Kg		110	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1184		mg/Kg		118	70 - 130	6	20

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

Lab Sample ID: 880-32067-A-7-C MS
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	996	802.3		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U	996	855.2		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

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

Lab Sample ID: 880-32067-A-7-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60345 — **Prep Batch: 60293**

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	<50.4	U	996	798.2		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.4	U	996	845.4		mg/Kg		80	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60064/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 60267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/15/23 01:18	1

Lab Sample ID: LCS 880-60064/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 60267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-60064/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 60267

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-31978-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 60267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	190	F1	252	349.2	F1	mg/Kg		63	90 - 110

Lab Sample ID: 880-31978-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 60267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190	F1	250	347.0	F1	mg/Kg		63	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

GC VOA

Analysis Batch: 60079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	8021B	60126
890-5078-2	G5 FS	Total/NA	Solid	8021B	60126
890-5078-3	G9 FS	Total/NA	Solid	8021B	60126
MB 880-60096/5-A	Method Blank	Total/NA	Solid	8021B	60096
MB 880-60126/5-A	Method Blank	Total/NA	Solid	8021B	60126
LCS 880-60126/1-A	Lab Control Sample	Total/NA	Solid	8021B	60126
LCSD 880-60126/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60126
880-31987-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	60126
880-31987-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60126

Prep Batch: 60096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60096/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	5035	
890-5078-2	G5 FS	Total/NA	Solid	5035	
890-5078-3	G9 FS	Total/NA	Solid	5035	
MB 880-60126/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60126/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60126/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31987-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-31987-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	Total BTEX	
890-5078-2	G5 FS	Total/NA	Solid	Total BTEX	
890-5078-3	G9 FS	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	8015NM Prep	
890-5078-2	G5 FS	Total/NA	Solid	8015NM Prep	
890-5078-3	G9 FS	Total/NA	Solid	8015NM Prep	
MB 880-60293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32067-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32067-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	8015B NM	60293
890-5078-2	G5 FS	Total/NA	Solid	8015B NM	60293
890-5078-3	G9 FS	Total/NA	Solid	8015B NM	60293
MB 880-60293/1-A	Method Blank	Total/NA	Solid	8015B NM	60293
LCS 880-60293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60293

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

GC Semi VOA (Continued)

Analysis Batch: 60345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-60293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60293
880-32067-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	60293
880-32067-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60293

Analysis Batch: 60454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Total/NA	Solid	8015 NM	
890-5078-2	G5 FS	Total/NA	Solid	8015 NM	
890-5078-3	G9 FS	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Soluble	Solid	DI Leach	
890-5078-2	G5 FS	Soluble	Solid	DI Leach	
890-5078-3	G9 FS	Soluble	Solid	DI Leach	
MB 880-60064/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60064/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60064/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31978-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31978-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 60267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5078-1	G4 FS	Soluble	Solid	300.0	60064
890-5078-2	G5 FS	Soluble	Solid	300.0	60064
890-5078-3	G9 FS	Soluble	Solid	300.0	60064
MB 880-60064/1-A	Method Blank	Soluble	Solid	300.0	60064
LCS 880-60064/2-A	Lab Control Sample	Soluble	Solid	300.0	60064
LCSD 880-60064/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60064
880-31978-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	60064
880-31978-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	60064

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Client Sample ID: G4 FS

Date Collected: 08/10/23 07:45
Date Received: 08/11/23 09:53

Lab Sample ID: 890-5078-1

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			5.05 g	5 mL	60126	08/14/23 14:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60079	08/15/23 08:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60265	08/15/23 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			60454	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 16:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60064	08/13/23 12:41	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60267	08/15/23 06:09	SMC	EET MID

Client Sample ID: G5 FS

Date Collected: 08/10/23 08:12
Date Received: 08/11/23 09:53

Lab Sample ID: 890-5078-2

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			4.95 g	5 mL	60126	08/14/23 14:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60079	08/15/23 08:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60265	08/15/23 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			60454	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	60064	08/13/23 12:41	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60267	08/15/23 06:19	SMC	EET MID

Client Sample ID: G9 FS

Date Collected: 08/10/23 08:42
Date Received: 08/11/23 09:53

Lab Sample ID: 890-5078-3

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			4.99 g	5 mL	60126	08/14/23 14:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60079	08/15/23 09:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60265	08/15/23 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			60454	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60064	08/13/23 12:41	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60267	08/15/23 06:29	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5078-1
SDG: KH237032

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5078-1	G4 FS	Solid	08/10/23 07:45	08/11/23 09:53	8
890-5078-2	G5 FS	Solid	08/10/23 08:12	08/11/23 09:53	8
890-5078-3	G9 FS	Solid	08/10/23 08:42	08/11/23 09:53	8

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237032	Due Date:	48 hour
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Wm007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6
Total Containers:		Corrected Temperature:	1.4

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)
G4 FS		8-10-23	7:[illegible]	8	Comp	1		✓	✓	✓
G5 FS		8-10-23	8:12	8	Comp	1		✓	✓	✓
G9 FS		8-10-23	8:42	8	Comp	1		✓	✓	✓

890-5078 Chain of Custody

Sample Comments

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	8.11.23 953	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
8/17/2023
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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1426 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-5078-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/15/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: FIGHTING OKRA	Project #: 89000174			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D - Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P - Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
G4 FS (890-5078-1)	8/10/23	07 45 Mountain		Solid			X	X	X	X	X	1	
G5 FS (890-5078-2)	8/10/23	08 12 Mountain		Solid			X	X	X	X	X	1	
G9 FS (890-5078-3)	8/10/23	08 42 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Clee					
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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8/17/2023
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Released to Imaging: 3/1/2024 11:35:47 AM

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5078-1
SDG Number: KH237032

Login Number: 5078
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: Terracon Consulting Eng & Scientists

Job Number: 890-5078-1
SDG Number: KH237032

Login Number: 5078
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/14/23 08:11 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").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/18/2023 1:18:59 PM Revision 1

JOB DESCRIPTION

Fighting Okra
SDG NUMBER KH237032

JOB NUMBER

890-5093-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

my EOL

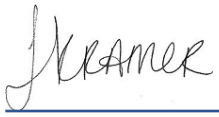
Eurofins Carlsbad

Job Notes

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

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

Authorization



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Revision 1

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

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

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
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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Job ID: 890-5093-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5093-1

REVISION

The report being provided is a revision of the original report sent on 8/17/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Receipt
The samples were received on 8/14/2023 3:03 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 7.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: J8 (890-5093-1), J9 (890-5093-2), J10 (890-5093-3) and I10 FS (890-5093-4).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-60364 and analytical batch 880-60348 was outside the upper 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: CCV inadvertently double spiked. Percent recoveries are based on the amount spiked.(CCV 880-60345/32), (CCV 880-60345/48) and (CCV 880-60345/59)

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: J8

Date Collected: 08/14/23 10:52
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-1
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		08/16/23 09:58	08/16/23 15:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 09:58	08/16/23 15:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/23 09:58	08/16/23 15:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/23 09:58	08/16/23 15:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/23 09:58	08/16/23 15:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/23 09:58	08/16/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*08/16/23 09:58*	*08/16/23 15:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/16/23 09:58*	*08/16/23 15:14*	*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			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**125**		49.9		mg/Kg			08/17/23 11:20	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		08/15/23 12:15	08/16/23 18:09	1
Diesel Range Organics (Over C10-C28)	**125**		49.9		mg/Kg		08/15/23 12:15	08/16/23 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/23 12:15	08/16/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:09*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15900**		101		mg/Kg			08/15/23 23:28	20

Client Sample ID: J9

Date Collected: 08/14/23 11:44
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-2
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		08/16/23 09:58	08/16/23 15:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 15:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 15:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/16/23 09:58	08/16/23 15:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 15:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/16/23 09:58	08/16/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/16/23 09:58*	*08/16/23 15:35*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: J9
Date Collected: 08/14/23 11:44
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/16/23 09:58*	*08/16/23 15:35*	*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			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**89.7**		50.5		mg/Kg			08/17/23 11:20	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	<50.5	U	50.5		mg/Kg		08/15/23 12:15	08/16/23 18:31	1
Diesel Range Organics (Over C10-C28)	**89.7**		50.5		mg/Kg		08/15/23 12:15	08/16/23 18:31	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/15/23 12:15	08/16/23 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:31*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		5.02		mg/Kg			08/15/23 23:49	1

Client Sample ID: J10
Date Collected: 08/14/23 12:20
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-3
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		08/16/23 09:58	08/16/23 16:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/23 09:58	08/16/23 16:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/23 09:58	08/16/23 16:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/23 09:58	08/16/23 16:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/23 09:58	08/16/23 16:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/23 09:58	08/16/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/16/23 09:58*	*08/16/23 16:29*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/16/23 09:58*	*08/16/23 16:29*	*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			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**123**		50.5		mg/Kg			08/17/23 11:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: J10

Date Collected: 08/14/23 12:20
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-3

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	<50.5	U	50.5		mg/Kg		08/15/23 12:15	08/16/23 18:54	1
Diesel Range Organics (Over C10-C28)	**123**		50.5		mg/Kg		08/15/23 12:15	08/16/23 18:54	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/15/23 12:15	08/16/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:54*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/15/23 12:15*	*08/16/23 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.6**		4.97		mg/Kg			08/15/23 23:56	1

Client Sample ID: I10 FS

Date Collected: 08/14/23 12:44
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-4

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		08/16/23 09:58	08/16/23 16:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 16:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 16:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/16/23 09:58	08/16/23 16:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 09:58	08/16/23 16:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/16/23 09:58	08/16/23 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*08/16/23 09:58*	*08/16/23 16:49*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/16/23 09:58*	*08/16/23 16:49*	*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			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**165**		49.7		mg/Kg			08/17/23 11:20	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	<49.7	U	49.7		mg/Kg		08/15/23 12:15	08/16/23 19:16	1
Diesel Range Organics (Over C10-C28)	**165**		49.7		mg/Kg		08/15/23 12:15	08/16/23 19:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/15/23 12:15	08/16/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/15/23 12:15*	*08/16/23 19:16*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/15/23 12:15*	*08/16/23 19:16*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: I10 FS
Date Collected: 08/14/23 12:44
Date Received: 08/14/23 15:03
Sample Depth: 7

Lab Sample ID: 890-5093-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.96		mg/Kg			08/16/23 00:04	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

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)
890-5093-1	J8	77	95
890-5093-1 MS	J8	95	99
890-5093-1 MSD	J8	93	96
890-5093-2	J9	78	95
890-5093-3	J10	84	92
890-5093-4	I10 FS	81	91
LCS 880-60364/1-A	Lab Control Sample	95	88
LCSD 880-60364/2-A	Lab Control Sample Dup	91	96
MB 880-60364/5-A	Method Blank	100	134 S1+

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)
880-32067-A-7-C MS	Matrix Spike	96	83
880-32067-A-7-D MSD	Matrix Spike Duplicate	96	83
890-5093-1	J8	84	85
890-5093-2	J9	82	83
890-5093-3	J10	83	82
890-5093-4	I10 FS	88	88
LCS 880-60293/2-A	Lab Control Sample	115	112
LCSD 880-60293/3-A	Lab Control Sample Dup	119	113
MB 880-60293/1-A	Method Blank	88	92

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60364/5-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 09:58	08/16/23 14:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/23 09:58	08/16/23 14:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/23 09:58	08/16/23 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/16/23 09:58*	*08/16/23 14:42*	*1*
1,4-Difluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*08/16/23 09:58*	*08/16/23 14:42*	*1*

Lab Sample ID: LCS 880-60364/1-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09225		mg/Kg		92	70 - 130
Toluene	0.100	0.1034		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09910		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09527		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-60364/2-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	11	35
Toluene	0.100	0.1005		mg/Kg		101	70 - 130	3	35
Ethylbenzene	0.100	0.09272		mg/Kg		93	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130	4	35
o-Xylene	0.100	0.09112		mg/Kg		91	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-5093-1 MS
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: J8
Prep Type: Total/NA
Prep Batch: 60364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1075		mg/Kg		108	70 - 130
Toluene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

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

Lab Sample ID: 890-5093-1 MS
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: J8
Prep Type: Total/NA
Prep Batch: 60364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09476		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2049		mg/Kg		103	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09682		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-5093-1 MSD
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: J8
Prep Type: Total/NA
Prep Batch: 60364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09479		mg/Kg		96	70 - 130	13	35
Toluene	<0.00199	U	0.0990	0.09212		mg/Kg		93	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0990	0.08281		mg/Kg		84	70 - 130	13	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1712		mg/Kg		86	70 - 130	18	35
o-Xylene	<0.00199	U	0.0990	0.08238		mg/Kg		83	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-60293/1-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60293

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		08/15/23 12:15	08/16/23 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/23 12:15	08/16/23 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/15/23 12:15*	*08/16/23 08:13*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/15/23 12:15*	*08/16/23 08:13*	*1*

Lab Sample ID: LCS 880-60293/2-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1144		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1120		mg/Kg		112	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

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

Lab Sample ID: LCS 880-60293/2-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60293

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-60293/3-A
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60293

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1100		mg/Kg		110	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1184		mg/Kg		118	70 - 130	6	20

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

Lab Sample ID: 880-32067-A-7-C MS
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	996	802.3		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U	996	855.2		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-32067-A-7-D MSD
Matrix: Solid
Analysis Batch: 60345

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60293

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	<50.4	U	996	798.2		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.4	U	996	845.4		mg/Kg		80	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60241/1-A
Matrix: Solid
Analysis Batch: 60334

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			08/15/23 23:06	1

Lab Sample ID: LCS 880-60241/2-A
Matrix: Solid
Analysis Batch: 60334

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-60241/3-A
Matrix: Solid
Analysis Batch: 60334

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-5093-1 MS
Matrix: Solid
Analysis Batch: 60334

Client Sample ID: J8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	15900		5040	21310		mg/Kg		107	90 - 110		

Lab Sample ID: 890-5093-1 MSD
Matrix: Solid
Analysis Batch: 60334

Client Sample ID: J8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15900		5040	21410		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

GC VOA

Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	8021B	60364
890-5093-2	J9	Total/NA	Solid	8021B	60364
890-5093-3	J10	Total/NA	Solid	8021B	60364
890-5093-4	I10 FS	Total/NA	Solid	8021B	60364
MB 880-60364/5-A	Method Blank	Total/NA	Solid	8021B	60364
LCS 880-60364/1-A	Lab Control Sample	Total/NA	Solid	8021B	60364
LCSD 880-60364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60364
890-5093-1 MS	J8	Total/NA	Solid	8021B	60364
890-5093-1 MSD	J8	Total/NA	Solid	8021B	60364

Prep Batch: 60364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	5035	
890-5093-2	J9	Total/NA	Solid	5035	
890-5093-3	J10	Total/NA	Solid	5035	
890-5093-4	I10 FS	Total/NA	Solid	5035	
MB 880-60364/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60364/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60364/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5093-1 MS	J8	Total/NA	Solid	5035	
890-5093-1 MSD	J8	Total/NA	Solid	5035	

Analysis Batch: 60442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	Total BTEX	
890-5093-2	J9	Total/NA	Solid	Total BTEX	
890-5093-3	J10	Total/NA	Solid	Total BTEX	
890-5093-4	I10 FS	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	8015NM Prep	
890-5093-2	J9	Total/NA	Solid	8015NM Prep	
890-5093-3	J10	Total/NA	Solid	8015NM Prep	
890-5093-4	I10 FS	Total/NA	Solid	8015NM Prep	
MB 880-60293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32067-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32067-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	8015B NM	60293
890-5093-2	J9	Total/NA	Solid	8015B NM	60293
890-5093-3	J10	Total/NA	Solid	8015B NM	60293
890-5093-4	I10 FS	Total/NA	Solid	8015B NM	60293
MB 880-60293/1-A	Method Blank	Total/NA	Solid	8015B NM	60293
LCS 880-60293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60293

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

GC Semi VOA (Continued)

Analysis Batch: 60345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-60293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60293
880-32067-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	60293
880-32067-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60293

Analysis Batch: 60455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Total/NA	Solid	8015 NM	
890-5093-2	J9	Total/NA	Solid	8015 NM	
890-5093-3	J10	Total/NA	Solid	8015 NM	
890-5093-4	I10 FS	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Soluble	Solid	DI Leach	
890-5093-2	J9	Soluble	Solid	DI Leach	
890-5093-3	J10	Soluble	Solid	DI Leach	
890-5093-4	I10 FS	Soluble	Solid	DI Leach	
MB 880-60241/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60241/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60241/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5093-1 MS	J8	Soluble	Solid	DI Leach	
890-5093-1 MSD	J8	Soluble	Solid	DI Leach	

Analysis Batch: 60334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5093-1	J8	Soluble	Solid	300.0	60241
890-5093-2	J9	Soluble	Solid	300.0	60241
890-5093-3	J10	Soluble	Solid	300.0	60241
890-5093-4	I10 FS	Soluble	Solid	300.0	60241
MB 880-60241/1-A	Method Blank	Soluble	Solid	300.0	60241
LCS 880-60241/2-A	Lab Control Sample	Soluble	Solid	300.0	60241
LCSD 880-60241/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60241
890-5093-1 MS	J8	Soluble	Solid	300.0	60241
890-5093-1 MSD	J8	Soluble	Solid	300.0	60241

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: J8
Date Collected: 08/14/23 10:52
Date Received: 08/14/23 15:03

Lab Sample ID: 890-5093-1
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			5.03 g	5 mL	60364	08/16/23 09:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/16/23 15:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60442	08/17/23 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60455	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 18:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	60241	08/15/23 08:21	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	60334	08/15/23 23:28	SMC	EET MID

Client Sample ID: J9
Date Collected: 08/14/23 11:44
Date Received: 08/14/23 15:03

Lab Sample ID: 890-5093-2
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			4.96 g	5 mL	60364	08/16/23 09:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/16/23 15:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60442	08/17/23 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60455	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60241	08/15/23 08:21	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60334	08/15/23 23:49	SMC	EET MID

Client Sample ID: J10
Date Collected: 08/14/23 12:20
Date Received: 08/14/23 15:03

Lab Sample ID: 890-5093-3
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			4.98 g	5 mL	60364	08/16/23 09:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/16/23 16:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60442	08/17/23 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60455	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 18:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60241	08/15/23 08:21	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60334	08/15/23 23:56	SMC	EET MID

Client Sample ID: I10 FS
Date Collected: 08/14/23 12:44
Date Received: 08/14/23 15:03

Lab Sample ID: 890-5093-4
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			4.95 g	5 mL	60364	08/16/23 09:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/16/23 16:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60442	08/17/23 10:00	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Client Sample ID: I10 FS
Date Collected: 08/14/23 12:44
Date Received: 08/14/23 15:03

Lab Sample ID: 890-5093-4
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			60455	08/17/23 11:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60293	08/15/23 12:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60345	08/16/23 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	60241	08/15/23 08:21	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60334	08/16/23 00:04	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5093-1
SDG: KH237032

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5093-1	J8	Solid	08/14/23 10:52	08/14/23 15:03	7
890-5093-2	J9	Solid	08/14/23 11:44	08/14/23 15:03	7
890-5093-3	J10	Solid	08/14/23 12:20	08/14/23 15:03	7
890-5093-4	I10 FS	Solid	08/14/23 12:44	08/14/23 15:03	7

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140 Email:		Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	
Project Number:	KH237032	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	48 hour
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	7.4
Total Containers:		Corrected Temperature:	7.2

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
J8	Soil	8-14-23	10:52	7	Comp	1		✓	✓	✓	
J9	Soil	8-14-23	11:44	7	Comp	1		✓	✓	✓	
J10	Soil	8-14-23	12:20	7	Comp	1		✓	✓	✓	
I11	Soil	8-14-23	12:44	7	Comp	1		✓	✓	✓	

890-5093 Chain of Custody

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8-14-23 15:33	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
8/18/2023 (Rev. 1)
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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5093-1
SDG Number: KH237032

Login Number: 5093
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: Terracon Consulting Eng & Scientists

Job Number: 890-5093-1
SDG Number: KH237032

Login Number: 5093
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 08/15/23 10:23 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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/21/2023 9:07:01 AM Revision 1

JOB DESCRIPTION

Fighting Okra
SDG NUMBER KH237032

JOB NUMBER

890-5026-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

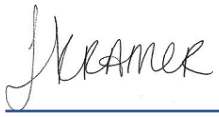
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/21/2023 9:07:01 AM
Revision 1

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

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Laboratory Job ID: 890-5026-1
SDG: KH237032

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Job ID: 890-5026-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5026-1

REVISION

The report being provided is a revision of the original report sent on 8/7/2023. The report (revision 1) is being revised due to Per client email, requesting sample depths to match COC.

Receipt
The samples were received on 8/2/2023 3:33 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: D3 FS (890-5026-1), D4 FS (890-5026-2), D6 FS (890-5026-3), E6 FS (890-5026-4), E7 FS (890-5026-5), E8 FS (890-5026-6), E9 FS (890-5026-7), F8 FS (890-5026-8), F9 FS (890-5026-9), F10 FS (890-5026-10), SSW 05 (J11,I11,H11) (890-5026-11), SSW05 (J11,I11) (890-5026-12), ESW (I11) (890-5026-13), WSW (J11) (890-5026-14), NSW (J11,I11) (890-5026-15), NSW (L9,K9) (890-5026-16), ESW (K9,K10) (890-5026-17), SWSW (L9,K10) (890-5026-18), L9 FS (890-5026-19), K9 FS (890-5026-20), K10 FS (890-5026-21), I11 FS (890-5026-22), J11 FS (890-5026-23) and H4 FS (890-5026-24).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): D3 FS (890-5026-1), D4 FS (890-5026-2), D6 FS (890-5026-3), E6 FS (890-5026-4), E7 FS (890-5026-5), E8 FS (890-5026-6), E9 FS (890-5026-7), F8 FS (890-5026-8), F9 FS (890-5026-9), F10 FS (890-5026-10), SSW 05 (J11,I11,H11) (890-5026-11), SSW05 (J11,I11) (890-5026-12), ESW (I11) (890-5026-13), WSW (J11) (890-5026-14), NSW (J11,I11) (890-5026-15), NSW (L9,K9) (890-5026-16), ESW (K9,K10) (890-5026-17), SWSW (L9,K10) (890-5026-18), L9 FS (890-5026-19), K9 FS (890-5026-20), K10 FS (890-5026-21), I11 FS (890-5026-22), J11 FS (890-5026-23) and H4 FS (890-5026-24). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.
890-5026
#3
COC D6 FS 8-1-23 8:59
JAR D6 FS 8-1-23 9:01
BASED OFF SAMPLE NAME DATE THIS IS THE SAME SAMPLE

#15
COC NSW (J11,I11) 8-1-23 9:42
JAR NSW (J11,I11) 8-1-23 9:52
BASED OFF SAMPLE NAME DATE THIS IS THE SAME SAMPLE

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-59344/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-59344 and analytical batch 880-59294 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: D3 FS (890-5026-1), D4 FS (890-5026-2), D6 FS (890-5026-3), E6 FS (890-5026-4), E7 FS (890-5026-5), E8 FS (890-5026-6), E9 FS (890-5026-7), F8 FS (890-5026-8), F9 FS (890-5026-9), F10 FS (890-5026-10), SSW 05 (J11,I11,H11) (890-5026-11), SSW05 (J11,I11) (890-5026-12), ESW (I11) (890-5026-13), WSW (J11) (890-5026-14), ESW (K9,K10) (890-5026-17), SWSW (L9,K10) (890-5026-18), L9 FS (890-5026-19), K9 FS (890-5026-20), (CCV 880-59293/2), (CCV 880-59293/20), (CCV 880-59293/33), (LCS 880-59345/1-A), (LCSD 880-59345/2-A), (MB 880-59345/5-A), (890-5026-A-1-D MS) and (890-5026-A-1-E MSD). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Job ID: 890-5026-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8021B: The method blank for preparation batch 880-59345 and analytical batch 880-59293 contained Ethylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59293 recovered above the upper control limit for Benzene and m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59293/2).

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 880-59360 and analytical batch 880-59405 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-59405/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: E9 FS (890-5026-7) and F8 FS (890-5026-8). 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: SSW05 (J11,I11) (890-5026-12), ESW (I11) (890-5026-13), WSW (J11) (890-5026-14), NSW (L9,K9) (890-5026-16) and L9 FS (890-5026-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59360 and analytical batch 880-59405 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-59405 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59405/20).

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: D3 FS

Date Collected: 08/01/23 08:55
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-1

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		08/04/23 13:23	08/04/23 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:55	1
m-Xylene & p-Xylene	**0.0144**		0.00399		mg/Kg		08/04/23 13:23	08/04/23 17:55	1
o-Xylene	**0.00415**		0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:55	1
Xylenes, Total	**0.0186**		0.00399		mg/Kg		08/04/23 13:23	08/04/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 17:55*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/04/23 13:23*	*08/04/23 17:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0186**		0.00399		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**256**		50.3		mg/Kg			08/07/23 15:23	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	<50.3	U F2	50.3		mg/Kg		08/04/23 16:07	08/06/23 11:46	1
Diesel Range Organics (Over C10-C28)	**256**	**F1 F2**	50.3		mg/Kg		08/04/23 16:07	08/06/23 11:46	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 16:07	08/06/23 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/04/23 16:07*	*08/06/23 11:46*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/04/23 16:07*	*08/06/23 11:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		4.99		mg/Kg			08/05/23 00:46	1

Client Sample ID: D4 FS

Date Collected: 08/01/23 08:58
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-2

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		08/04/23 13:23	08/04/23 18:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:20	1
m-Xylene & p-Xylene	**0.0121**		0.00403		mg/Kg		08/04/23 13:23	08/04/23 18:20	1
o-Xylene	**0.00663**		0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:20	1
Xylenes, Total	**0.0187**		0.00403		mg/Kg		08/04/23 13:23	08/04/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 18:20*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: D4 FS
Date Collected: 08/01/23 08:58
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/04/23 13:23*	*08/04/23 18:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0187**		0.00403		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**265**		49.6		mg/Kg			08/07/23 15:23	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	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 12:53	1
Diesel Range Organics (Over C10-C28)	**265**		49.6		mg/Kg		08/04/23 16:07	08/06/23 12:53	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/04/23 16:07*	*08/06/23 12:53*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/04/23 16:07*	*08/06/23 12:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		5.00		mg/Kg			08/05/23 01:01	1

Client Sample ID: D6 FS
Date Collected: 08/01/23 08:59
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-3
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		08/04/23 13:23	08/04/23 18:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:46	1
m-Xylene & p-Xylene	**0.00894**		0.00404		mg/Kg		08/04/23 13:23	08/04/23 18:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 18:46	1
Xylenes, Total	**0.00894**		0.00404		mg/Kg		08/04/23 13:23	08/04/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 18:46*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/04/23 13:23*	*08/04/23 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00894**		0.00404		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**194**		49.9		mg/Kg			08/07/23 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: D6 FS

Date Collected: 08/01/23 08:59
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-3
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	<49.9	U	49.9		mg/Kg		08/04/23 16:07	08/06/23 13:16	1
Diesel Range Organics (Over C10-C28)	**194**		49.9		mg/Kg		08/04/23 16:07	08/06/23 13:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/04/23 16:07	08/06/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/04/23 16:07*	*08/06/23 13:16*	*1*
o-Terphenyl	*91*		*70 - 130*	*08/04/23 16:07*	*08/06/23 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		4.96		mg/Kg			08/05/23 01:06	1

Client Sample ID: E6 FS

Date Collected: 08/01/23 09:01
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-4
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		08/04/23 13:23	08/04/23 19:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 19:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 19:12	1
m-Xylene & p-Xylene	**0.0101**		0.00401		mg/Kg		08/04/23 13:23	08/04/23 19:12	1
o-Xylene	**0.00859**		0.00200		mg/Kg		08/04/23 13:23	08/04/23 19:12	1
Xylenes, Total	**0.0187**		0.00401		mg/Kg		08/04/23 13:23	08/04/23 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 19:12*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*08/04/23 13:23*	*08/04/23 19:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0187**		0.00401		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**234**		49.6		mg/Kg			08/07/23 15:23	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	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 13:38	1
Diesel Range Organics (Over C10-C28)	**234**		49.6		mg/Kg		08/04/23 16:07	08/06/23 13:38	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/04/23 16:07*	*08/06/23 13:38*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/04/23 16:07*	*08/06/23 13:38*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: E6 FS

Date Collected: 08/01/23 09:01
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.9		5.01		mg/Kg			08/05/23 01:11	1

Client Sample ID: E7 FS

Date Collected: 08/01/23 09:08
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-5
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		08/04/23 13:23	08/04/23 19:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/04/23 19:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/04/23 19:38	1
m-Xylene & p-Xylene	0.00824		0.00398		mg/Kg		08/04/23 13:23	08/04/23 19:38	1
o-Xylene	0.00808		0.00199		mg/Kg		08/04/23 13:23	08/04/23 19:38	1
Xylenes, Total	0.0163		0.00398		mg/Kg		08/04/23 13:23	08/04/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 19:38*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/04/23 13:23*	*08/04/23 19:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0163		0.00398		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	235		50.5		mg/Kg			08/07/23 15:23	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	<50.5	U	50.5		mg/Kg		08/04/23 16:07	08/06/23 14:01	1
Diesel Range Organics (Over C10-C28)	235		50.5		mg/Kg		08/04/23 16:07	08/06/23 14:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 16:07	08/06/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/04/23 16:07*	*08/06/23 14:01*	*1*
o-Terphenyl	*98*		*70 - 130*	*08/04/23 16:07*	*08/06/23 14:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.2		4.99		mg/Kg			08/05/23 01:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: E8 FS

Date Collected: 08/01/23 09:10
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-6

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		08/04/23 13:23	08/04/23 20:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 20:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 20:03	1
m-Xylene & p-Xylene	**0.0110**		0.00396		mg/Kg		08/04/23 13:23	08/04/23 20:03	1
o-Xylene	**0.00788**		0.00198		mg/Kg		08/04/23 13:23	08/04/23 20:03	1
Xylenes, Total	**0.0189**		0.00396		mg/Kg		08/04/23 13:23	08/04/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 20:03*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*08/04/23 13:23*	*08/04/23 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0189**		0.00396		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**215**		50.4		mg/Kg			08/07/23 15:23	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	<50.4	U	50.4		mg/Kg		08/04/23 16:07	08/06/23 14:24	1
Diesel Range Organics (Over C10-C28)	**215**		50.4		mg/Kg		08/04/23 16:07	08/06/23 14:24	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/04/23 16:07	08/06/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/04/23 16:07*	*08/06/23 14:24*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/04/23 16:07*	*08/06/23 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		4.95		mg/Kg			08/05/23 01:31	1

Client Sample ID: E9 FS

Date Collected: 08/01/23 09:11
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-7

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		08/04/23 13:23	08/04/23 20:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/04/23 20:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/04/23 20:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 13:23	08/04/23 20:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/04/23 20:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 13:23	08/04/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 20:29*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: E9 FS

Date Collected: 08/01/23 09:11
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-7

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/04/23 13:23*	*08/04/23 20:29*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**308**		50.2		mg/Kg			08/07/23 15:23	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	<50.2	U	50.2		mg/Kg		08/04/23 16:07	08/06/23 14:47	1
Diesel Range Organics (Over C10-C28)	**308**		50.2		mg/Kg		08/04/23 16:07	08/06/23 14:47	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 16:07	08/06/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 14:47*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6050**		49.7		mg/Kg			08/05/23 01:36	10

Client Sample ID: F8 FS

Date Collected: 08/01/23 09:15
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-8

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		08/04/23 13:23	08/04/23 20:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 20:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 20:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 13:23	08/04/23 20:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/04/23 20:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 13:23	08/04/23 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*54*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 20:55*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/04/23 13:23*	*08/04/23 20:55*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/07/23 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: F8 FS
Date Collected: 08/01/23 09:15
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-8
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	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 15:10	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 15:10	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*248*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 15:10*	*1*
o-Terphenyl	*257*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		5.00		mg/Kg			08/05/23 01:41	1

Client Sample ID: F9 FS
Date Collected: 08/01/23 09:18
Date Received: 08/02/23 15:33
Sample Depth: 7

Lab Sample ID: 890-5026-9
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		08/04/23 13:23	08/04/23 21:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/04/23 21:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/04/23 21:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/04/23 21:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/04/23 21:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/04/23 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 21:21*	*1*
1,4-Difluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*08/04/23 13:23*	*08/04/23 21:21*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/07/23 15:23	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	<49.7	U	49.7		mg/Kg		08/04/23 16:07	08/06/23 15:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/04/23 16:07	08/06/23 15:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/04/23 16:07	08/06/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/04/23 16:07*	*08/06/23 15:33*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/04/23 16:07*	*08/06/23 15:33*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: F9 FS

Date Collected: 08/01/23 09:18
Date Received: 08/02/23 15:33
Sample Depth: 7

Lab Sample ID: 890-5026-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.1		4.96		mg/Kg			08/05/23 01:46	1

Client Sample ID: F10 FS

Date Collected: 08/01/23 09:21
Date Received: 08/02/23 15:33
Sample Depth: 4

Lab Sample ID: 890-5026-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 21:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 21:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 21:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/04/23 21:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/04/23 21:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/04/23 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 21:47*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/04/23 13:23*	*08/04/23 21:47*	*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			08/07/23 18:37	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			08/07/23 15:23	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		08/04/23 16:07	08/06/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/04/23 16:07	08/06/23 15:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/04/23 16:07	08/06/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/04/23 16:07*	*08/06/23 15:56*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/04/23 16:07*	*08/06/23 15:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.8		5.04		mg/Kg			08/05/23 01:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: SSW 05 (J11,I11,H11)

Lab Sample ID: 890-5026-11
Matrix: Solid
Date Collected: 08/01/23 09:24
Date Received: 08/02/23 15:33
Sample Depth: 0 - 4

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		08/04/23 13:23	08/04/23 23:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 13:23	08/04/23 23:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:23	08/04/23 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 23:29*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/04/23 13:23*	*08/04/23 23:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/23 15:23	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	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 16:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 16:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/04/23 16:07*	*08/06/23 16:41*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/04/23 16:07*	*08/06/23 16:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.4**		4.99		mg/Kg			08/05/23 01:56	1

Client Sample ID: SSW05 (J11,I11)

Lab Sample ID: 890-5026-12
Matrix: Solid
Date Collected: 08/01/23 09:27
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

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		08/04/23 13:23	08/04/23 23:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/04/23 13:23	08/04/23 23:55	1
o-Xylene	**0.00283**		0.00200		mg/Kg		08/04/23 13:23	08/04/23 23:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/23 13:23	08/04/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 23:55*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: SSW05 (J11,I11)

Date Collected: 08/01/23 09:27
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

Lab Sample ID: 890-5026-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/04/23 13:23*	*08/04/23 23:55*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**200**		49.6		mg/Kg			08/07/23 15:23	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	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 17:05	1
Diesel Range Organics (Over C10-C28)	**200**		49.6		mg/Kg		08/04/23 16:07	08/06/23 17:05	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:05*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		24.8		mg/Kg			08/05/23 02:11	5

Client Sample ID: ESW (I11)

Date Collected: 08/01/23 09:42
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

Lab Sample ID: 890-5026-13
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		08/04/23 13:23	08/05/23 00:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 00:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 00:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 13:23	08/05/23 00:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 00:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 13:23	08/05/23 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/05/23 00:20*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/04/23 13:23*	*08/05/23 00:20*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**155**		50.3		mg/Kg			08/07/23 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: ESW (I11)

Lab Sample ID: 890-5026-13
Matrix: Solid
Date Collected: 08/01/23 09:42
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

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	<50.3	U	50.3		mg/Kg		08/04/23 16:07	08/06/23 17:27	1
Diesel Range Organics (Over C10-C28)	**155**		50.3		mg/Kg		08/04/23 16:07	08/06/23 17:27	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 16:07	08/06/23 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:27*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**243**		5.01		mg/Kg			08/05/23 02:16	1

Client Sample ID: WSW (J11)

Lab Sample ID: 890-5026-14
Matrix: Solid
Date Collected: 08/01/23 09:48
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

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		08/04/23 13:23	08/05/23 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/05/23 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/05/23 00:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/04/23 13:23	08/05/23 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/05/23 00:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/04/23 13:23	08/05/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*08/04/23 13:23*	*08/05/23 00:46*	*1*
1,4-Difluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*08/04/23 13:23*	*08/05/23 00:46*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**189**		50.1		mg/Kg			08/07/23 15:23	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	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 17:50	1
Diesel Range Organics (Over C10-C28)	**189**		50.1		mg/Kg		08/04/23 16:07	08/06/23 17:50	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:50*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 17:50*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: WSW (J11)

Lab Sample ID: 890-5026-14
Matrix: Solid
Date Collected: 08/01/23 09:48
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**948**		4.97		mg/Kg			08/05/23 02:31	1

Client Sample ID: NSW (J11,I11)

Lab Sample ID: 890-5026-15
Matrix: Solid
Date Collected: 08/01/23 09:52
Date Received: 08/02/23 15:33
Sample Depth: 4 - 11

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		08/04/23 13:23	08/05/23 01:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 01:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 01:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/05/23 01:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 01:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/05/23 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*08/04/23 13:23*	*08/05/23 01:11*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/04/23 13:23*	*08/05/23 01:11*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**381**		50.4		mg/Kg			08/07/23 15:23	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	<50.4	U	50.4		mg/Kg		08/04/23 16:07	08/06/23 18:13	1
Diesel Range Organics (Over C10-C28)	**381**		50.4		mg/Kg		08/04/23 16:07	08/06/23 18:13	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/04/23 16:07	08/06/23 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*08/04/23 16:07*	*08/06/23 18:13*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/04/23 16:07*	*08/06/23 18:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6820**		49.5		mg/Kg			08/05/23 02:36	10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: NSW (L9,K9)

Date Collected: 08/01/23 10:41
Date Received: 08/02/23 15:33
Sample Depth: 4 - 8

Lab Sample ID: 890-5026-16
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		08/04/23 13:23	08/05/23 01:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 01:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 01:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/05/23 01:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 01:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/05/23 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/05/23 01:36*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*08/04/23 13:23*	*08/05/23 01:36*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/23 15:23	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	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 18:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 18:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:07	08/06/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 18:36*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		4.95		mg/Kg			08/05/23 02:40	1

Client Sample ID: ESW (K9,K10)

Date Collected: 08/01/23 10:42
Date Received: 08/02/23 15:33
Sample Depth: 4 - 8

Lab Sample ID: 890-5026-17
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		08/04/23 13:23	08/05/23 02:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 02:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/05/23 02:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:23	08/05/23 02:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 13:23	08/05/23 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/05/23 02:02*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: ESW (K9,K10)

Date Collected: 08/01/23 10:42
Date Received: 08/02/23 15:33
Sample Depth: 4 - 8

Lab Sample ID: 890-5026-17
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/04/23 13:23*	*08/05/23 02:02*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**87.0**		50.2		mg/Kg			08/07/23 15:23	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	<50.2	U	50.2		mg/Kg		08/04/23 16:07	08/06/23 18:58	1
Diesel Range Organics (Over C10-C28)	**87.0**		50.2		mg/Kg		08/04/23 16:07	08/06/23 18:58	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 16:07	08/06/23 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*120*		*70 - 130*	*08/04/23 16:07*	*08/06/23 18:58*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/04/23 16:07*	*08/06/23 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.7**		5.01		mg/Kg			08/05/23 02:45	1

Client Sample ID: SWSW (L9,K10)

Date Collected: 08/01/23 10:45
Date Received: 08/02/23 15:33
Sample Depth: 4 - 8

Lab Sample ID: 890-5026-18
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		08/04/23 13:23	08/05/23 02:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 02:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 02:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/05/23 02:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 13:23	08/05/23 02:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 13:23	08/05/23 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/05/23 02:27*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*08/04/23 13:23*	*08/05/23 02:27*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.8**		50.1		mg/Kg			08/07/23 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: SWSW (L9,K10)

Lab Sample ID: 890-5026-18
Matrix: Solid
Date Collected: 08/01/23 10:45
Date Received: 08/02/23 15:33
Sample Depth: 4 - 8

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	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 19:22	1
Diesel Range Organics (Over C10-C28)	**75.8**		50.1		mg/Kg		08/04/23 16:07	08/06/23 19:22	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/04/23 16:07	08/06/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*08/04/23 16:07*	*08/06/23 19:22*	*1*
o-Terphenyl	*128*		*70 - 130*	*08/04/23 16:07*	*08/06/23 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.8**		5.05		mg/Kg			08/05/23 02:50	1

Client Sample ID: L9 FS

Lab Sample ID: 890-5026-19
Matrix: Solid
Date Collected: 08/01/23 10:35
Date Received: 08/02/23 15:33
Sample Depth: 8

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		08/04/23 13:23	08/05/23 02:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 02:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 02:52	1
m-Xylene & p-Xylene	**0.00517**		0.00402		mg/Kg		08/04/23 13:23	08/05/23 02:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 13:23	08/05/23 02:52	1
Xylenes, Total	**0.00517**		0.00402		mg/Kg		08/04/23 13:23	08/05/23 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*08/04/23 13:23*	*08/05/23 02:52*	*1*
1,4-Difluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*08/04/23 13:23*	*08/05/23 02:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00517**		0.00402		mg/Kg			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**235**		50.0		mg/Kg			08/07/23 15:23	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		08/04/23 16:07	08/06/23 19:44	1
Diesel Range Organics (Over C10-C28)	**235**		50.0		mg/Kg		08/04/23 16:07	08/06/23 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:07	08/06/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 19:44*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*08/04/23 16:07*	*08/06/23 19:44*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: L9 FS

Lab Sample ID: 890-5026-19
Matrix: Solid
Date Collected: 08/01/23 10:35
Date Received: 08/02/23 15:33
Sample Depth: 8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**584**		4.98		mg/Kg			08/05/23 02:55	1

Client Sample ID: K9 FS

Lab Sample ID: 890-5026-20
Matrix: Solid
Date Collected: 08/01/23 10:36
Date Received: 08/02/23 15:33
Sample Depth: 8

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		08/04/23 13:23	08/05/23 03:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/05/23 03:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/05/23 03:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 13:23	08/05/23 03:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 13:23	08/05/23 03:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 13:23	08/05/23 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/05/23 03:17*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/04/23 13:23*	*08/05/23 03:17*	*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			08/07/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.7**		50.0		mg/Kg			08/07/23 15:23	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		08/04/23 16:07	08/06/23 20:08	1
Diesel Range Organics (Over C10-C28)	**51.7**		50.0		mg/Kg		08/04/23 16:07	08/06/23 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:07	08/06/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/04/23 16:07*	*08/06/23 20:08*	*1*
o-Terphenyl	*125*		*70 - 130*	*08/04/23 16:07*	*08/06/23 20:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.1**		4.96		mg/Kg			08/05/23 03:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: K10 FS

Date Collected: 08/01/23 10:37
Date Received: 08/02/23 15:33
Sample Depth: 8

Lab Sample ID: 890-5026-21

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		08/04/23 12:58	08/05/23 01:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:06	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396		mg/Kg		08/04/23 12:58	08/05/23 01:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:06	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		08/04/23 12:58	08/05/23 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:06*	*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			08/07/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/07/23 20:57	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	<50.3	U	50.3		mg/Kg		08/04/23 16:24	08/07/23 10:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/04/23 16:24	08/07/23 10:50	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 16:24	08/07/23 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/04/23 16:24*	*08/07/23 10:50*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/04/23 16:24*	*08/07/23 10:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.0**		5.01		mg/Kg			08/04/23 21:53	1

Client Sample ID: I11 FS

Date Collected: 08/01/23 09:55
Date Received: 08/02/23 15:33
Sample Depth: 11

Lab Sample ID: 890-5026-22

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		08/04/23 12:58	08/05/23 01:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:26	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397		mg/Kg		08/04/23 12:58	08/05/23 01:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 12:58	08/05/23 01:26	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		08/04/23 12:58	08/05/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:26*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: I11 FS
Date Collected: 08/01/23 09:55
Date Received: 08/02/23 15:33
Sample Depth: 11

Lab Sample ID: 890-5026-22
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:26*	*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			08/07/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.5**		50.3		mg/Kg			08/07/23 20:57	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	<50.3	U	50.3		mg/Kg		08/04/23 16:24	08/07/23 12:00	1
Diesel Range Organics (Over C10-C28)	**68.5**		50.3		mg/Kg		08/04/23 16:24	08/07/23 12:00	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 16:24	08/07/23 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:00*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		4.98		mg/Kg			08/04/23 22:08	1

Client Sample ID: J11 FS
Date Collected: 08/01/23 09:58
Date Received: 08/02/23 15:33
Sample Depth: 11

Lab Sample ID: 890-5026-23
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		08/04/23 12:58	08/05/23 01:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 12:58	08/05/23 01:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 12:58	08/05/23 01:47	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		08/04/23 12:58	08/05/23 01:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 12:58	08/05/23 01:47	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		08/04/23 12:58	08/05/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:47*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/04/23 12:58*	*08/05/23 01:47*	*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			08/07/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**119**		50.2		mg/Kg			08/07/23 20:57	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: J11 FS
Date Collected: 08/01/23 09:58
Date Received: 08/02/23 15:33
Sample Depth: 11

Lab Sample ID: 890-5026-23
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	<50.2	U	50.2		mg/Kg		08/04/23 16:24	08/07/23 12:24	1
Diesel Range Organics (Over C10-C28)	**119**		50.2		mg/Kg		08/04/23 16:24	08/07/23 12:24	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 16:24	08/07/23 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:24*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1720**		24.9		mg/Kg			08/04/23 22:13	5

Client Sample ID: H4 FS
Date Collected: 08/01/23 08:52
Date Received: 08/02/23 15:33
Sample Depth: 8

Lab Sample ID: 890-5026-24
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		08/04/23 12:58	08/05/23 02:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 12:58	08/05/23 02:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 12:58	08/05/23 02:07	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404		mg/Kg		08/04/23 12:58	08/05/23 02:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 12:58	08/05/23 02:07	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		08/04/23 12:58	08/05/23 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/04/23 12:58*	*08/05/23 02:07*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*08/04/23 12:58*	*08/05/23 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/07/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/07/23 20:57	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	<50.5	U	50.5		mg/Kg		08/04/23 16:24	08/07/23 12:48	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/04/23 16:24	08/07/23 12:48	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 16:24	08/07/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:48*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/04/23 16:24*	*08/07/23 12:48*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: H4 FS
Date Collected: 08/01/23 08:52
Date Received: 08/02/23 15:33
Sample Depth: 8

Lab Sample ID: 890-5026-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.0		5.02		mg/Kg			08/04/23 22:18	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31681-A-1-E MS	Matrix Spike	122	119
880-31681-A-1-F MSD	Matrix Spike Duplicate	120	110
890-5026-1	D3 FS	58 S1-	115
890-5026-1 MS	D3 FS	61 S1-	98
890-5026-1 MSD	D3 FS	62 S1-	141 S1+
890-5026-2	D4 FS	59 S1-	115
890-5026-3	D6 FS	56 S1-	120
890-5026-4	E6 FS	63 S1-	144 S1+
890-5026-5	E7 FS	63 S1-	120
890-5026-6	E8 FS	64 S1-	123
890-5026-7	E9 FS	62 S1-	117
890-5026-8	F8 FS	54 S1-	105
890-5026-9	F9 FS	63 S1-	156 S1+
890-5026-10	F10 FS	57 S1-	118
890-5026-11	SSW 05 (J11,I11,H11)	58 S1-	114
890-5026-12	SSW05 (J11,I11)	60 S1-	118
890-5026-13	ESW (I11)	67 S1-	110
890-5026-14	WSW (J11)	72	154 S1+
890-5026-15	NSW (J11,I11)	70	120
890-5026-16	NSW (L9,K9)	57 S1-	128
890-5026-17	ESW (K9,K10)	55 S1-	110
890-5026-18	SWSW (L9,K10)	56 S1-	122
890-5026-19	L9 FS	71	139 S1+
890-5026-20	K9 FS	63 S1-	125
890-5026-21	K10 FS	88	74
890-5026-22	I11 FS	117	88
890-5026-23	J11 FS	130	109
890-5026-24	H4 FS	87	83
LCS 880-59344/1-A	Lab Control Sample	115	113
LCS 880-59345/1-A	Lab Control Sample	51 S1-	118
LCSD 880-59344/2-A	Lab Control Sample Dup	115	116
LCSD 880-59345/2-A	Lab Control Sample Dup	53 S1-	111
MB 880-59298/5-A	Method Blank	72	95
MB 880-59344/5-A	Method Blank	68 S1-	85
MB 880-59345/5-A	Method Blank	31 S1-	109

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5026-1	D3 FS	97	101
890-5026-1 MS	D3 FS	83	83
890-5026-1 MSD	D3 FS	110	108
890-5026-2	D4 FS	107	106

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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)
890-5026-3	D6 FS	95	91
890-5026-4	E6 FS	125	119
890-5026-5	E7 FS	100	98
890-5026-6	E8 FS	95	97
890-5026-7	E9 FS	136 S1+	143 S1+
890-5026-8	F8 FS	248 S1+	257 S1+
890-5026-9	F9 FS	101	110
890-5026-10	F10 FS	102	112
890-5026-11	SSW 05 (J11,I11,H11)	95	104
890-5026-12	SSW05 (J11,I11)	131 S1+	136 S1+
890-5026-13	ESW (I11)	133 S1+	143 S1+
890-5026-14	WSW (J11)	134 S1+	140 S1+
890-5026-15	NSW (J11,I11)	117	126
890-5026-16	NSW (L9,K9)	144 S1+	151 S1+
890-5026-17	ESW (K9,K10)	120	127
890-5026-18	SWSW (L9,K10)	123	128
890-5026-19	L9 FS	138 S1+	144 S1+
890-5026-20	K9 FS	120	125
890-5026-21	K10 FS	74	80
890-5026-21 MS	K10 FS	93	86
890-5026-21 MSD	K10 FS	91	85
890-5026-22	I11 FS	105	113
890-5026-23	J11 FS	100	103
890-5026-24	H4 FS	95	102
LCS 880-59360/2-A	Lab Control Sample	103	117
LCS 880-59365/2-A	Lab Control Sample	114	108
LCSD 880-59360/3-A	Lab Control Sample Dup	100	113
LCSD 880-59365/3-A	Lab Control Sample Dup	106	99
MB 880-59360/1-A	Method Blank	118	134 S1+
MB 880-59365/1-A	Method Blank	92	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59298/5-A
Matrix: Solid
Analysis Batch: 59294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 08:27	08/04/23 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*08/04/23 08:27*	*08/04/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/04/23 08:27*	*08/04/23 12:44*	*1*

Lab Sample ID: MB 880-59344/5-A
Matrix: Solid
Analysis Batch: 59294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 12:58	08/04/23 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 12:58	08/04/23 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 12:58	08/04/23 23:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 12:58	08/04/23 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 12:58	08/04/23 23:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 12:58	08/04/23 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*08/04/23 12:58*	*08/04/23 23:23*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/04/23 12:58*	*08/04/23 23:23*	*1*

Lab Sample ID: LCS 880-59344/1-A
Matrix: Solid
Analysis Batch: 59294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1252		mg/Kg		125	70 - 130
Toluene	0.100	0.1167		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1264		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2689	*+	mg/Kg		134	70 - 130
o-Xylene	0.100	0.1297		mg/Kg		130	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-59344/2-A
Matrix: Solid
Analysis Batch: 59294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59344

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1276		mg/Kg		128	70 - 130	2	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: LCSD 880-59344/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59294 — **Prep Batch: 59344**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1123		mg/Kg		112	70 - 130	4	35
Ethylbenzene			0.100	0.1233		mg/Kg		123	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2625	*+	mg/Kg		131	70 - 130	2	35
o-Xylene			0.100	0.1255		mg/Kg		126	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 880-31681-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59294 — **Prep Batch: 59344**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.1132		mg/Kg		113	70 - 130
Toluene	<0.00202	U	0.0998	0.09594		mg/Kg		96	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.09883		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00403	U *+	0.200	0.2029		mg/Kg		102	70 - 130
o-Xylene	<0.00202	U	0.0998	0.09624		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: 880-31681-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59294 — **Prep Batch: 59344**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.1170		mg/Kg		118	70 - 130	3	35
Toluene	<0.00202	U	0.0994	0.09969		mg/Kg		100	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0994	0.1061		mg/Kg		107	70 - 130	7	35
m-Xylene & p-Xylene	<0.00403	U *+	0.199	0.2222		mg/Kg		112	70 - 130	9	35
o-Xylene	<0.00202	U	0.0994	0.1040		mg/Kg		105	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-59345/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59293 — **Prep Batch: 59345**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 13:23	08/04/23 17:29	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: MB 880-59345/5-A
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:23	08/04/23 17:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:23	08/04/23 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*31*	*S1-*	*70 - 130*	*08/04/23 13:23*	*08/04/23 17:29*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/04/23 13:23*	*08/04/23 17:29*	*1*

Lab Sample ID: LCS 880-59345/1-A
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1147		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2438		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-59345/2-A
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1247		mg/Kg		125	70 - 130	2	35
Toluene	0.100	0.1278		mg/Kg		128	70 - 130	11	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2590		mg/Kg		130	70 - 130	6	35
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*53*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-5026-1 MS
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: D3 FS
Prep Type: Total/NA
Prep Batch: 59345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1049		mg/Kg		105	70 - 130
Toluene	<0.00200	U	0.0996	0.1027		mg/Kg		103	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.09939		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.0144		0.199	0.2073		mg/Kg		97	70 - 130
o-Xylene	0.00415		0.0996	0.09568		mg/Kg		92	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: 890-5026-1 MS
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: D3 FS
Prep Type: Total/NA
Prep Batch: 59345

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-5026-1 MSD
Matrix: Solid
Analysis Batch: 59293

Client Sample ID: D3 FS
Prep Type: Total/NA
Prep Batch: 59345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.1248		mg/Kg		125	70 - 130	17	35
Toluene	<0.00200	U	0.0994	0.1078		mg/Kg		108	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0994	0.1082		mg/Kg		108	70 - 130	8	35
m-Xylene & p-Xylene	0.0144		0.199	0.2162		mg/Kg		102	70 - 130	4	35
o-Xylene	0.00415		0.0994	0.1106		mg/Kg		107	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130

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

Lab Sample ID: MB 880-59360/1-A
Matrix: Solid
Analysis Batch: 59405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59360

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		08/04/23 16:07	08/06/23 08:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/23 16:07	08/06/23 08:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:07	08/06/23 08:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/04/23 16:07	08/06/23 08:22	1
o-Terphenyl	134	S1+	70 - 130	08/04/23 16:07	08/06/23 08:22	1

Lab Sample ID: LCS 880-59360/2-A
Matrix: Solid
Analysis Batch: 59405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	962.8		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	949.9		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: LCSD 880-59360/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59405 — **Prep Batch: 59360**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	894.4		mg/Kg		89	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	912.5		mg/Kg		91	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 890-5026-1 MS — **Client Sample ID: D3 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59405 — **Prep Batch: 59360**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F2	993	1103		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	256	F1 F2	993	746.7	F1	mg/Kg		49	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-5026-1 MSD — **Client Sample ID: D3 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59405 — **Prep Batch: 59360**

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	<50.3	U F2	996	848.0	F2	mg/Kg		82	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	256	F1 F2	996	1015	F2	mg/Kg		76	70 - 130	30	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: MB 880-59365/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59417 — **Prep Batch: 59365**

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		08/04/23 16:24	08/07/23 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/23 16:24	08/07/23 08:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:24	08/07/23 08:06	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: MB 880-59365/1-A
Matrix: Solid
Analysis Batch: 59417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59365

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/04/23 16:24	08/07/23 08:06	1
o-Terphenyl	104		70 - 130	08/04/23 16:24	08/07/23 08:06	1

Lab Sample ID: LCS 880-59365/2-A
Matrix: Solid
Analysis Batch: 59417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	779.0		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-59365/3-A
Matrix: Solid
Analysis Batch: 59417

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	869.7		mg/Kg		87	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1146		mg/Kg		115	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-5026-21 MS
Matrix: Solid
Analysis Batch: 59417

Client Sample ID: K10 FS
Prep Type: Total/NA
Prep Batch: 59365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	992	771.1		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	992	865.0		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	86		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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

Lab Sample ID: 890-5026-21 MSD — **Client Sample ID: K10 FS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59417 — **Prep Batch: 59365**

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	<50.3	U	992	748.2		mg/Kg		72	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.3	U	992	851.3		mg/Kg		83	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59266/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/04/23 21:38	1

Lab Sample ID: LCS 880-59266/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-59266/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.6		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-5026-21 MS — **Client Sample ID: K10 FS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	62.0		251	310.5		mg/Kg		99	90 - 110

Lab Sample ID: 890-5026-21 MSD — **Client Sample ID: K10 FS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	62.0		251	310.9		mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-59248/1-A
Matrix: Solid
Analysis Batch: 59357

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			08/05/23 00:31	1

Lab Sample ID: LCS 880-59248/2-A
Matrix: Solid
Analysis Batch: 59357

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-59248/3-A
Matrix: Solid
Analysis Batch: 59357

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	242.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-5026-1 MS
Matrix: Solid
Analysis Batch: 59357

Client Sample ID: D3 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	145		250	394.1		mg/Kg		100	90 - 110		

Lab Sample ID: 890-5026-1 MSD
Matrix: Solid
Analysis Batch: 59357

Client Sample ID: D3 FS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	145		250	394.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-5026-11 MS
Matrix: Solid
Analysis Batch: 59357

Client Sample ID: SSW 05 (J11,I11,H11)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.4		250	318.6		mg/Kg		103	90 - 110		

Lab Sample ID: 890-5026-11 MSD
Matrix: Solid
Analysis Batch: 59357

Client Sample ID: SSW 05 (J11,I11,H11)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.4		250	326.1		mg/Kg		106	90 - 110	2	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

GC VOA

Analysis Batch: 59293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	8021B	59345
890-5026-2	D4 FS	Total/NA	Solid	8021B	59345
890-5026-3	D6 FS	Total/NA	Solid	8021B	59345
890-5026-4	E6 FS	Total/NA	Solid	8021B	59345
890-5026-5	E7 FS	Total/NA	Solid	8021B	59345
890-5026-6	E8 FS	Total/NA	Solid	8021B	59345
890-5026-7	E9 FS	Total/NA	Solid	8021B	59345
890-5026-8	F8 FS	Total/NA	Solid	8021B	59345
890-5026-9	F9 FS	Total/NA	Solid	8021B	59345
890-5026-10	F10 FS	Total/NA	Solid	8021B	59345
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	8021B	59345
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	8021B	59345
890-5026-13	ESW (I11)	Total/NA	Solid	8021B	59345
890-5026-14	WSW (J11)	Total/NA	Solid	8021B	59345
890-5026-15	NSW (J11,I11)	Total/NA	Solid	8021B	59345
890-5026-16	NSW (L9,K9)	Total/NA	Solid	8021B	59345
890-5026-17	ESW (K9,K10)	Total/NA	Solid	8021B	59345
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	8021B	59345
890-5026-19	L9 FS	Total/NA	Solid	8021B	59345
890-5026-20	K9 FS	Total/NA	Solid	8021B	59345
MB 880-59345/5-A	Method Blank	Total/NA	Solid	8021B	59345
LCS 880-59345/1-A	Lab Control Sample	Total/NA	Solid	8021B	59345
LCSD 880-59345/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59345
890-5026-1 MS	D3 FS	Total/NA	Solid	8021B	59345
890-5026-1 MSD	D3 FS	Total/NA	Solid	8021B	59345

Analysis Batch: 59294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Total/NA	Solid	8021B	59344
890-5026-22	I11 FS	Total/NA	Solid	8021B	59344
890-5026-23	J11 FS	Total/NA	Solid	8021B	59344
890-5026-24	H4 FS	Total/NA	Solid	8021B	59344
MB 880-59298/5-A	Method Blank	Total/NA	Solid	8021B	59298
MB 880-59344/5-A	Method Blank	Total/NA	Solid	8021B	59344
LCS 880-59344/1-A	Lab Control Sample	Total/NA	Solid	8021B	59344
LCSD 880-59344/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59344
880-31681-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	59344
880-31681-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59344

Prep Batch: 59298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59298/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Total/NA	Solid	5035	
890-5026-22	I11 FS	Total/NA	Solid	5035	
890-5026-23	J11 FS	Total/NA	Solid	5035	
890-5026-24	H4 FS	Total/NA	Solid	5035	
MB 880-59344/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59344/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

GC VOA (Continued)

Prep Batch: 59344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-59344/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31681-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-31681-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 59345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	5035	
890-5026-2	D4 FS	Total/NA	Solid	5035	
890-5026-3	D6 FS	Total/NA	Solid	5035	
890-5026-4	E6 FS	Total/NA	Solid	5035	
890-5026-5	E7 FS	Total/NA	Solid	5035	
890-5026-6	E8 FS	Total/NA	Solid	5035	
890-5026-7	E9 FS	Total/NA	Solid	5035	
890-5026-8	F8 FS	Total/NA	Solid	5035	
890-5026-9	F9 FS	Total/NA	Solid	5035	
890-5026-10	F10 FS	Total/NA	Solid	5035	
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	5035	
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	5035	
890-5026-13	ESW (I11)	Total/NA	Solid	5035	
890-5026-14	WSW (J11)	Total/NA	Solid	5035	
890-5026-15	NSW (J11,I11)	Total/NA	Solid	5035	
890-5026-16	NSW (L9,K9)	Total/NA	Solid	5035	
890-5026-17	ESW (K9,K10)	Total/NA	Solid	5035	
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	5035	
890-5026-19	L9 FS	Total/NA	Solid	5035	
890-5026-20	K9 FS	Total/NA	Solid	5035	
MB 880-59345/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59345/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59345/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5026-1 MS	D3 FS	Total/NA	Solid	5035	
890-5026-1 MSD	D3 FS	Total/NA	Solid	5035	

Analysis Batch: 59580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	Total BTEX	
890-5026-2	D4 FS	Total/NA	Solid	Total BTEX	
890-5026-3	D6 FS	Total/NA	Solid	Total BTEX	
890-5026-4	E6 FS	Total/NA	Solid	Total BTEX	
890-5026-5	E7 FS	Total/NA	Solid	Total BTEX	
890-5026-6	E8 FS	Total/NA	Solid	Total BTEX	
890-5026-7	E9 FS	Total/NA	Solid	Total BTEX	
890-5026-8	F8 FS	Total/NA	Solid	Total BTEX	
890-5026-9	F9 FS	Total/NA	Solid	Total BTEX	
890-5026-10	F10 FS	Total/NA	Solid	Total BTEX	
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	Total BTEX	
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	Total BTEX	
890-5026-13	ESW (I11)	Total/NA	Solid	Total BTEX	
890-5026-14	WSW (J11)	Total/NA	Solid	Total BTEX	
890-5026-15	NSW (J11,I11)	Total/NA	Solid	Total BTEX	
890-5026-16	NSW (L9,K9)	Total/NA	Solid	Total BTEX	
890-5026-17	ESW (K9,K10)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

GC VOA (Continued)

Analysis Batch: 59580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	Total BTEX	
890-5026-19	L9 FS	Total/NA	Solid	Total BTEX	
890-5026-20	K9 FS	Total/NA	Solid	Total BTEX	
890-5026-21	K10 FS	Total/NA	Solid	Total BTEX	
890-5026-22	I11 FS	Total/NA	Solid	Total BTEX	
890-5026-23	J11 FS	Total/NA	Solid	Total BTEX	
890-5026-24	H4 FS	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	8015NM Prep	
890-5026-2	D4 FS	Total/NA	Solid	8015NM Prep	
890-5026-3	D6 FS	Total/NA	Solid	8015NM Prep	
890-5026-4	E6 FS	Total/NA	Solid	8015NM Prep	
890-5026-5	E7 FS	Total/NA	Solid	8015NM Prep	
890-5026-6	E8 FS	Total/NA	Solid	8015NM Prep	
890-5026-7	E9 FS	Total/NA	Solid	8015NM Prep	
890-5026-8	F8 FS	Total/NA	Solid	8015NM Prep	
890-5026-9	F9 FS	Total/NA	Solid	8015NM Prep	
890-5026-10	F10 FS	Total/NA	Solid	8015NM Prep	
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	8015NM Prep	
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	8015NM Prep	
890-5026-13	ESW (I11)	Total/NA	Solid	8015NM Prep	
890-5026-14	WSW (J11)	Total/NA	Solid	8015NM Prep	
890-5026-15	NSW (J11,I11)	Total/NA	Solid	8015NM Prep	
890-5026-16	NSW (L9,K9)	Total/NA	Solid	8015NM Prep	
890-5026-17	ESW (K9,K10)	Total/NA	Solid	8015NM Prep	
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	8015NM Prep	
890-5026-19	L9 FS	Total/NA	Solid	8015NM Prep	
890-5026-20	K9 FS	Total/NA	Solid	8015NM Prep	
MB 880-59360/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59360/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59360/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5026-1 MS	D3 FS	Total/NA	Solid	8015NM Prep	
890-5026-1 MSD	D3 FS	Total/NA	Solid	8015NM Prep	

Prep Batch: 59365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Total/NA	Solid	8015NM Prep	
890-5026-22	I11 FS	Total/NA	Solid	8015NM Prep	
890-5026-23	J11 FS	Total/NA	Solid	8015NM Prep	
890-5026-24	H4 FS	Total/NA	Solid	8015NM Prep	
MB 880-59365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5026-21 MS	K10 FS	Total/NA	Solid	8015NM Prep	
890-5026-21 MSD	K10 FS	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

GC Semi VOA

Analysis Batch: 59405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	8015B NM	59360
890-5026-2	D4 FS	Total/NA	Solid	8015B NM	59360
890-5026-3	D6 FS	Total/NA	Solid	8015B NM	59360
890-5026-4	E6 FS	Total/NA	Solid	8015B NM	59360
890-5026-5	E7 FS	Total/NA	Solid	8015B NM	59360
890-5026-6	E8 FS	Total/NA	Solid	8015B NM	59360
890-5026-7	E9 FS	Total/NA	Solid	8015B NM	59360
890-5026-8	F8 FS	Total/NA	Solid	8015B NM	59360
890-5026-9	F9 FS	Total/NA	Solid	8015B NM	59360
890-5026-10	F10 FS	Total/NA	Solid	8015B NM	59360
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	8015B NM	59360
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	8015B NM	59360
890-5026-13	ESW (I11)	Total/NA	Solid	8015B NM	59360
890-5026-14	WSW (J11)	Total/NA	Solid	8015B NM	59360
890-5026-15	NSW (J11,I11)	Total/NA	Solid	8015B NM	59360
890-5026-16	NSW (L9,K9)	Total/NA	Solid	8015B NM	59360
890-5026-17	ESW (K9,K10)	Total/NA	Solid	8015B NM	59360
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	8015B NM	59360
890-5026-19	L9 FS	Total/NA	Solid	8015B NM	59360
890-5026-20	K9 FS	Total/NA	Solid	8015B NM	59360
MB 880-59360/1-A	Method Blank	Total/NA	Solid	8015B NM	59360
LCS 880-59360/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59360
LCSD 880-59360/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59360
890-5026-1 MS	D3 FS	Total/NA	Solid	8015B NM	59360
890-5026-1 MSD	D3 FS	Total/NA	Solid	8015B NM	59360

Analysis Batch: 59417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Total/NA	Solid	8015B NM	59365
890-5026-22	I11 FS	Total/NA	Solid	8015B NM	59365
890-5026-23	J11 FS	Total/NA	Solid	8015B NM	59365
890-5026-24	H4 FS	Total/NA	Solid	8015B NM	59365
MB 880-59365/1-A	Method Blank	Total/NA	Solid	8015B NM	59365
LCS 880-59365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59365
LCSD 880-59365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59365
890-5026-21 MS	K10 FS	Total/NA	Solid	8015B NM	59365
890-5026-21 MSD	K10 FS	Total/NA	Solid	8015B NM	59365

Analysis Batch: 59542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Total/NA	Solid	8015 NM	
890-5026-2	D4 FS	Total/NA	Solid	8015 NM	
890-5026-3	D6 FS	Total/NA	Solid	8015 NM	
890-5026-4	E6 FS	Total/NA	Solid	8015 NM	
890-5026-5	E7 FS	Total/NA	Solid	8015 NM	
890-5026-6	E8 FS	Total/NA	Solid	8015 NM	
890-5026-7	E9 FS	Total/NA	Solid	8015 NM	
890-5026-8	F8 FS	Total/NA	Solid	8015 NM	
890-5026-9	F9 FS	Total/NA	Solid	8015 NM	
890-5026-10	F10 FS	Total/NA	Solid	8015 NM	
890-5026-11	SSW 05 (J11,I11,H11)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

GC Semi VOA (Continued)

Analysis Batch: 59542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-12	SSW05 (J11,I11)	Total/NA	Solid	8015 NM	
890-5026-13	ESW (I11)	Total/NA	Solid	8015 NM	
890-5026-14	WSW (J11)	Total/NA	Solid	8015 NM	
890-5026-15	NSW (J11,I11)	Total/NA	Solid	8015 NM	
890-5026-16	NSW (L9,K9)	Total/NA	Solid	8015 NM	
890-5026-17	ESW (K9,K10)	Total/NA	Solid	8015 NM	
890-5026-18	SWSW (L9,K10)	Total/NA	Solid	8015 NM	
890-5026-19	L9 FS	Total/NA	Solid	8015 NM	
890-5026-20	K9 FS	Total/NA	Solid	8015 NM	
890-5026-21	K10 FS	Total/NA	Solid	8015 NM	
890-5026-22	I11 FS	Total/NA	Solid	8015 NM	
890-5026-23	J11 FS	Total/NA	Solid	8015 NM	
890-5026-24	H4 FS	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Soluble	Solid	DI Leach	
890-5026-2	D4 FS	Soluble	Solid	DI Leach	
890-5026-3	D6 FS	Soluble	Solid	DI Leach	
890-5026-4	E6 FS	Soluble	Solid	DI Leach	
890-5026-5	E7 FS	Soluble	Solid	DI Leach	
890-5026-6	E8 FS	Soluble	Solid	DI Leach	
890-5026-7	E9 FS	Soluble	Solid	DI Leach	
890-5026-8	F8 FS	Soluble	Solid	DI Leach	
890-5026-9	F9 FS	Soluble	Solid	DI Leach	
890-5026-10	F10 FS	Soluble	Solid	DI Leach	
890-5026-11	SSW 05 (J11,I11,H11)	Soluble	Solid	DI Leach	
890-5026-12	SSW05 (J11,I11)	Soluble	Solid	DI Leach	
890-5026-13	ESW (I11)	Soluble	Solid	DI Leach	
890-5026-14	WSW (J11)	Soluble	Solid	DI Leach	
890-5026-15	NSW (J11,I11)	Soluble	Solid	DI Leach	
890-5026-16	NSW (L9,K9)	Soluble	Solid	DI Leach	
890-5026-17	ESW (K9,K10)	Soluble	Solid	DI Leach	
890-5026-18	SWSW (L9,K10)	Soluble	Solid	DI Leach	
890-5026-19	L9 FS	Soluble	Solid	DI Leach	
890-5026-20	K9 FS	Soluble	Solid	DI Leach	
MB 880-59248/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59248/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59248/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5026-1 MS	D3 FS	Soluble	Solid	DI Leach	
890-5026-1 MSD	D3 FS	Soluble	Solid	DI Leach	
890-5026-11 MS	SSW 05 (J11,I11,H11)	Soluble	Solid	DI Leach	
890-5026-11 MSD	SSW 05 (J11,I11,H11)	Soluble	Solid	DI Leach	

Leach Batch: 59266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Soluble	Solid	DI Leach	
890-5026-22	I11 FS	Soluble	Solid	DI Leach	
890-5026-23	J11 FS	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

HPLC/IC (Continued)

Leach Batch: 59266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-24	H4 FS	Soluble	Solid	DI Leach	
MB 880-59266/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59266/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59266/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5026-21 MS	K10 FS	Soluble	Solid	DI Leach	
890-5026-21 MSD	K10 FS	Soluble	Solid	DI Leach	

Analysis Batch: 59356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-21	K10 FS	Soluble	Solid	300.0	59266
890-5026-22	I11 FS	Soluble	Solid	300.0	59266
890-5026-23	J11 FS	Soluble	Solid	300.0	59266
890-5026-24	H4 FS	Soluble	Solid	300.0	59266
MB 880-59266/1-A	Method Blank	Soluble	Solid	300.0	59266
LCS 880-59266/2-A	Lab Control Sample	Soluble	Solid	300.0	59266
LCSD 880-59266/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59266
890-5026-21 MS	K10 FS	Soluble	Solid	300.0	59266
890-5026-21 MSD	K10 FS	Soluble	Solid	300.0	59266

Analysis Batch: 59357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5026-1	D3 FS	Soluble	Solid	300.0	59248
890-5026-2	D4 FS	Soluble	Solid	300.0	59248
890-5026-3	D6 FS	Soluble	Solid	300.0	59248
890-5026-4	E6 FS	Soluble	Solid	300.0	59248
890-5026-5	E7 FS	Soluble	Solid	300.0	59248
890-5026-6	E8 FS	Soluble	Solid	300.0	59248
890-5026-7	E9 FS	Soluble	Solid	300.0	59248
890-5026-8	F8 FS	Soluble	Solid	300.0	59248
890-5026-9	F9 FS	Soluble	Solid	300.0	59248
890-5026-10	F10 FS	Soluble	Solid	300.0	59248
890-5026-11	SSW 05 (J11,I11,H11)	Soluble	Solid	300.0	59248
890-5026-12	SSW05 (J11,I11)	Soluble	Solid	300.0	59248
890-5026-13	ESW (I11)	Soluble	Solid	300.0	59248
890-5026-14	WSW (J11)	Soluble	Solid	300.0	59248
890-5026-15	NSW (J11,I11)	Soluble	Solid	300.0	59248
890-5026-16	NSW (L9,K9)	Soluble	Solid	300.0	59248
890-5026-17	ESW (K9,K10)	Soluble	Solid	300.0	59248
890-5026-18	SWSW (L9,K10)	Soluble	Solid	300.0	59248
890-5026-19	L9 FS	Soluble	Solid	300.0	59248
890-5026-20	K9 FS	Soluble	Solid	300.0	59248
MB 880-59248/1-A	Method Blank	Soluble	Solid	300.0	59248
LCS 880-59248/2-A	Lab Control Sample	Soluble	Solid	300.0	59248
LCSD 880-59248/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59248
890-5026-1 MS	D3 FS	Soluble	Solid	300.0	59248
890-5026-1 MSD	D3 FS	Soluble	Solid	300.0	59248
890-5026-11 MS	SSW 05 (J11,I11,H11)	Soluble	Solid	300.0	59248
890-5026-11 MSD	SSW 05 (J11,I11,H11)	Soluble	Solid	300.0	59248

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: D3 FS
Date Collected: 08/01/23 08:55
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-1
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			5.01 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 17:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 11:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 00:46	CH	EET MID

Client Sample ID: D4 FS
Date Collected: 08/01/23 08:58
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-2
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			4.96 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 18:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 12:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:01	CH	EET MID

Client Sample ID: D6 FS
Date Collected: 08/01/23 08:59
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-3
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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 18:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 13:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:06	CH	EET MID

Client Sample ID: E6 FS
Date Collected: 08/01/23 09:01
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-4
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			4.99 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 19:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: E6 FS
Date Collected: 08/01/23 09:01
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-4
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			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:11	CH	EET MID

Client Sample ID: E7 FS
Date Collected: 08/01/23 09:08
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-5
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			5.02 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 19:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 14:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:16	CH	EET MID

Client Sample ID: E8 FS
Date Collected: 08/01/23 09:10
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-6
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			5.05 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 20:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:31	CH	EET MID

Client Sample ID: E9 FS
Date Collected: 08/01/23 09:11
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-7
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			4.97 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 20:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 14:47	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: E9 FS
Date Collected: 08/01/23 09:11
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		10			59357	08/05/23 01:36	CH	EET MID

Client Sample ID: F8 FS
Date Collected: 08/01/23 09:15
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-8
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			4.96 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 20:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:41	CH	EET MID

Client Sample ID: F9 FS
Date Collected: 08/01/23 09:18
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-9
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			5.03 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 21:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:46	CH	EET MID

Client Sample ID: F10 FS
Date Collected: 08/01/23 09:21
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-10
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			5.05 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 21:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:51	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: SSW 05 (J11,I11,H11)

Lab Sample ID: 890-5026-11
Matrix: Solid
Date Collected: 08/01/23 09:24
Date Received: 08/02/23 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 23:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 16:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 01:56	CH	EET MID

Client Sample ID: SSW05 (J11,I11)

Lab Sample ID: 890-5026-12
Matrix: Solid
Date Collected: 08/01/23 09:27
Date Received: 08/02/23 15:33

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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/04/23 23:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		5			59357	08/05/23 02:11	CH	EET MID

Client Sample ID: ESW (I11)

Lab Sample ID: 890-5026-13
Matrix: Solid
Date Collected: 08/01/23 09:42
Date Received: 08/02/23 15:33

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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 00:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 17:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:16	CH	EET MID

Client Sample ID: WSW (J11)

Lab Sample ID: 890-5026-14
Matrix: Solid
Date Collected: 08/01/23 09:48
Date Received: 08/02/23 15:33

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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 00:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: WSW (J11)
Date Collected: 08/01/23 09:48
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-14
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			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 17:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:31	CH	EET MID

Client Sample ID: NSW (J11,I11)
Date Collected: 08/01/23 09:52
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-15
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			5.05 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 01:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 18:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		10			59357	08/05/23 02:36	CH	EET MID

Client Sample ID: NSW (L9,K9)
Date Collected: 08/01/23 10:41
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-16
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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 01:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 18:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:40	CH	EET MID

Client Sample ID: ESW (K9,K10)
Date Collected: 08/01/23 10:42
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-17
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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 02:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 18:58	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: ESW (K9,K10)
Date Collected: 08/01/23 10:42
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-17
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	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:45	CH	EET MID

Client Sample ID: SWSW (L9,K10)
Date Collected: 08/01/23 10:45
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-18
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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 02:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 19:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:50	CH	EET MID

Client Sample ID: L9 FS
Date Collected: 08/01/23 10:35
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-19
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	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 02:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 19:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 02:55	CH	EET MID

Client Sample ID: K9 FS
Date Collected: 08/01/23 10:36
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-20
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			4.96 g	5 mL	59345	08/04/23 13:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59293	08/05/23 03:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59360	08/04/23 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/06/23 20:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59248	08/03/23 13:28	KS	EET MID
Soluble	Analysis	300.0		1			59357	08/05/23 03:00	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: K10 FS
Date Collected: 08/01/23 10:37
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-21
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	59344	08/04/23 12:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/05/23 01:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59365	08/04/23 16:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59417	08/07/23 10:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59266	08/04/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			59356	08/04/23 21:53	CH	EET MID

Client Sample ID: I11 FS
Date Collected: 08/01/23 09:55
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-22
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	59344	08/04/23 12:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/05/23 01:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59365	08/04/23 16:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59417	08/07/23 12:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59266	08/04/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			59356	08/04/23 22:08	CH	EET MID

Client Sample ID: J11 FS
Date Collected: 08/01/23 09:58
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-23
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	59344	08/04/23 12:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/05/23 01:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			59542	08/07/23 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59365	08/04/23 16:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59417	08/07/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59266	08/04/23 14:00	KS	EET MID
Soluble	Analysis	300.0		5			59356	08/04/23 22:13	CH	EET MID

Client Sample ID: H4 FS
Date Collected: 08/01/23 08:52
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-24
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	59344	08/04/23 12:58	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/05/23 02:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59580	08/07/23 18:14	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Client Sample ID: H4 FS
Date Collected: 08/01/23 08:52
Date Received: 08/02/23 15:33

Lab Sample ID: 890-5026-24
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			59542	08/07/23 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59365	08/04/23 16:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59417	08/07/23 12:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59266	08/04/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			59356	08/04/23 22:18	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra

Job ID: 890-5026-1
SDG: KH237032

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5026-1	D3 FS	Solid	08/01/23 08:55	08/02/23 15:33	4
890-5026-2	D4 FS	Solid	08/01/23 08:58	08/02/23 15:33	4
890-5026-3	D6 FS	Solid	08/01/23 08:59	08/02/23 15:33	4
890-5026-4	E6 FS	Solid	08/01/23 09:01	08/02/23 15:33	4
890-5026-5	E7 FS	Solid	08/01/23 09:08	08/02/23 15:33	4
890-5026-6	E8 FS	Solid	08/01/23 09:10	08/02/23 15:33	4
890-5026-7	E9 FS	Solid	08/01/23 09:11	08/02/23 15:33	4
890-5026-8	F8 FS	Solid	08/01/23 09:15	08/02/23 15:33	4
890-5026-9	F9 FS	Solid	08/01/23 09:18	08/02/23 15:33	7
890-5026-10	F10 FS	Solid	08/01/23 09:21	08/02/23 15:33	4
890-5026-11	SSW 05 (J11,I11,H11)	Solid	08/01/23 09:24	08/02/23 15:33	0 - 4
890-5026-12	SSW05 (J11,I11)	Solid	08/01/23 09:27	08/02/23 15:33	4 - 11
890-5026-13	ESW (I11)	Solid	08/01/23 09:42	08/02/23 15:33	4 - 11
890-5026-14	WSW (J11)	Solid	08/01/23 09:48	08/02/23 15:33	4 - 11
890-5026-15	NSW (J11,I11)	Solid	08/01/23 09:52	08/02/23 15:33	4 - 11
890-5026-16	NSW (L9,K9)	Solid	08/01/23 10:41	08/02/23 15:33	4 - 8
890-5026-17	ESW (K9,K10)	Solid	08/01/23 10:42	08/02/23 15:33	4 - 8
890-5026-18	SWSW (L9,K10)	Solid	08/01/23 10:45	08/02/23 15:33	4 - 8
890-5026-19	L9 FS	Solid	08/01/23 10:35	08/02/23 15:33	8
890-5026-20	K9 FS	Solid	08/01/23 10:36	08/02/23 15:33	8
890-5026-21	K10 FS	Solid	08/01/23 10:37	08/02/23 15:33	8
890-5026-22	I11 FS	Solid	08/01/23 09:55	08/02/23 15:33	11
890-5026-23	J11 FS	Solid	08/01/23 09:58	08/02/23 15:33	11
890-5026-24	H4 FS	Solid	08/01/23 08:52	08/02/23 15:33	8

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140 Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	
Project Number:	KH237032	☐ Routine ☑ Rush	Pres. Code
Project Location:	Lea County	Due Date: 48 hour	
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TRM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4	
Total Containers:		Corrected Temperature:	5.2	

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
D3 FS	Soil	8-1-23	8:55	4	Comp	1	✓	✓	✓	
D4 FS			8:58	4	Comp	1	✓	✓	✓	
D6 FS			8:59	4	Comp	1	✓	✓	✓	
E6 FS			9:01	4	Comp	1	✓	✓	✓	
E7 FS			9:08	4	Comp	1	✓	✓	✓	
E8 FS			9:16	4	Comp	1	✓	✓	✓	
E9 FS			9:11	4	Comp	1	✓	✓	✓	
HH										
F8 FS			9:15	4	Comp	1	✓	✓	✓	
F9 FS			9:18	7	Comp	1	✓	✓	✓	

890-5026 Chain of Custody

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.2.23 1533	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM

8/21/2023 (Rev. 1)

Released to Imaging: 3/1/2024 11:35:47 AM

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Chain of Custody

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237032	Due Date:	48 hour
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples 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:		Corrected Temperature:	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
FIO FS	Soil	8-21-23	9:21	4	Comp	1		✓	✓	✓	
SSW 05 (J11, I11, H11)			9:24	0-4		1		✓	✓	✓	
SSW 05 (J11, I11)			9:27	4-11		1		✓	✓	✓	
ESW (I11)			9:42	4-11		1		✓	✓	✓	
WSW (J11)			9:48	4-11		1		✓	✓	✓	
NSW (J11, I11)			9:52	4-11		1		✓	✓	✓	
22 ~~ESW (K9, K10)~~											
NSW (L9, K9)			10:41	4-8		1		✓	✓	✓	
ESW (K9, K10)			10:42	4-8		1		✓	✓	✓	
SWSW (L9, K10)			10:45	4-8		1		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	Clare Cuff	8-2-23 1533	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM

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8/21/2023 (Rev. 1)

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140 Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	
Project Number:	KH237032	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	48 hour
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
L9 FS	Soil	8-2-23	10:35	8	Comp	1		✓	✓	✓	
K9 FS			10:36	8	Comp	1		✓	✓	✓	
K10 FS			10:37	8	Comp	1		✓	✓	✓	
I11 FS			9:55	11	Comp	1		✓	✓	✓	
J11 FS			9:58	11	Comp	1		✓	✓	✓	
H4 FS			8:52	8	Comp	1		✓	✓	✓	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8-2-23 1533	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM

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8/21/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5026-1
SDG Number: KH237032

Login Number: 5026
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: Terracon Consulting Eng & Scientists

Job Number: 890-5026-1
SDG Number: KH237032

Login Number: 5026
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/04/23 10:46 AM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/23/2023 1:04:44 PM Revision 1

JOB DESCRIPTION

Fighting Okra 7H
SDG NUMBER KH237008

JOB NUMBER

890-4964-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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Eurofins Carlsbad

Job Notes

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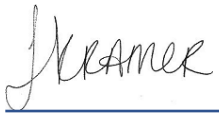
Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Laboratory Job ID: 890-4964-1
SDG: KH237008

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Job ID: 890-4964-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4964-1

REVISION

The report being provided is a revision of the original report sent on 7/27/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Receipt
The samples were received on 7/19/2023 8:40 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 2.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: O9 FS_4' (890-4964-1), N9FS_4' (890-4964-2), M9 FS_4' (890-4964-3), L9 FS_4' (890-4964-4), K9 FS_4' (890-4964-5), K10 FS_4' (890-4964-6), J9 FS_4' (890-4964-7), J10FS_4' (890-4964-8), J11 FS_4' (890-4964-9), E6 FS_4' (890-4964-10), I8 FS_4' (890-4964-11), I9 FS_4' (890-4964-12), I10 FS_4' (890-4964-13), I11 FS_4' (890-4964-14), H4 FS_7' (890-4964-15), H5 FS_4' (890-4964-16), H8 FS_4' (890-4964-17), H9 FS_7' (890-4964-18), H10 FS_7' (890-4964-19), G4 FS_4' (890-4964-20), G5 FS_7' (890-4964-21), G6 FS_4' (890-4964-22), G7 FS_4' (890-4964-23), G8 FS_4' (890-4964-24), G9 FS_7' (890-4964-25), G10 FS_7' (890-4964-26), F5 FS_7' (890-4964-27), F6 FS_7' (890-4964-28), F7 FS_4' (890-4964-29) and F4 FS_7' (890-4964-30).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58088 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene due to carryover. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58088/51).

Method 8021B: Surrogate recovery for the following samples were outside control limits: M9 FS_4' (890-4964-3), L9 FS_4' (890-4964-4), K9 FS_4' (890-4964-5), K10 FS_4' (890-4964-6), J11 FS_4' (890-4964-9), E6 FS_4' (890-4964-10) and I8 FS_4' (890-4964-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58150 and analytical batch 880-58088 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58258 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58258/33).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58286 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-58286/2) and (CCV 880-58286/33).

Method 8021B: Surrogate recovery for the following sample was outside control limits: I10 FS_4' (890-4964-13). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58243 and analytical batch 880-58278 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: I10 FS_4' (890-4964-13), I11 FS_4'

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Job ID: 890-4964-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

(890-4964-14), H4 FS_7' (890-4964-15), H5 FS_4' (890-4964-16), H8 FS_4' (890-4964-17), H9 FS_7' (890-4964-18), H10 FS_7' (890-4964-19), G4 FS_4' (890-4964-20), G5 FS_7' (890-4964-21), (890-4964-A-15-D MS) and (890-4964-A-15-E 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: (CCV 880-58278/20) and (CCV 880-58278/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58243 and analytical batch 880-58278 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4962-A-17-E 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 sample was outside control limits: K9 FS_4' (890-4964-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-58234 and analytical batch 880-58186 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: I10 FS_4' (890-4964-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58294 and analytical batch 880-58509 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: G10 FS_7' (890-4964-26) and F5 FS_7' (890-4964-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-58509/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58093 and analytical batch 880-58178 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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: O9 FS_4'

Date Collected: 07/17/23 10:28
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-1

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		07/20/23 13:48	07/21/23 11:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:48	07/21/23 11:00	1
Ethylbenzene	**0.00297**	**F1**	0.00198		mg/Kg		07/20/23 13:48	07/21/23 11:00	1
m-Xylene & p-Xylene	**0.00431**	**F1**	0.00396		mg/Kg		07/20/23 13:48	07/21/23 11:00	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		07/20/23 13:48	07/21/23 11:00	1
Xylenes, Total	**0.00431**	**F1**	0.00396		mg/Kg		07/20/23 13:48	07/21/23 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/20/23 13:48*	*07/21/23 11:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/20/23 13:48*	*07/21/23 11:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00728**		0.00396		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**850**		49.9		mg/Kg			07/24/23 16:18	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		07/21/23 11:49	07/21/23 18:56	1
Diesel Range Organics (Over C10-C28)	**850**		49.9		mg/Kg		07/21/23 11:49	07/21/23 18:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/21/23 11:49	07/21/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/21/23 11:49*	*07/21/23 18:56*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/21/23 11:49*	*07/21/23 18:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.7**		4.99		mg/Kg			07/21/23 08:32	1

Client Sample ID: N9FS_4'

Date Collected: 07/17/23 10:20
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-2

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		07/20/23 13:48	07/21/23 11:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:48	07/21/23 11:20	1
Ethylbenzene	**0.00412**		0.00201		mg/Kg		07/20/23 13:48	07/21/23 11:20	1
m-Xylene & p-Xylene	**0.00745**		0.00402		mg/Kg		07/20/23 13:48	07/21/23 11:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:48	07/21/23 11:20	1
Xylenes, Total	**0.00745**		0.00402		mg/Kg		07/20/23 13:48	07/21/23 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/20/23 13:48*	*07/21/23 11:20*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: N9FS_4'

Date Collected: 07/17/23 10:20
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/20/23 13:48*	*07/21/23 11:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0116**		0.00402		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**822**		49.7		mg/Kg			07/24/23 16:18	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	<49.7	U	49.7		mg/Kg		07/21/23 11:49	07/21/23 19:17	1
Diesel Range Organics (Over C10-C28)	**822**		49.7		mg/Kg		07/21/23 11:49	07/21/23 19:17	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/21/23 11:49	07/21/23 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*07/21/23 11:49*	*07/21/23 19:17*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/21/23 11:49*	*07/21/23 19:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.7**		5.00		mg/Kg			07/21/23 08:47	1

Client Sample ID: M9 FS_4'

Date Collected: 07/17/23 10:22
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-3

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		07/20/23 13:48	07/21/23 11:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:48	07/21/23 11:41	1
Ethylbenzene	**0.00381**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 11:41	1
m-Xylene & p-Xylene	**0.00685**		0.00403		mg/Kg		07/20/23 13:48	07/21/23 11:41	1
o-Xylene	**0.0933**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 11:41	1
Xylenes, Total	**0.100**		0.00403		mg/Kg		07/20/23 13:48	07/21/23 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 11:41*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/20/23 13:48*	*07/21/23 11:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.104**		0.00403		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**874**		50.1		mg/Kg			07/24/23 16:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: M9 FS_4'

Date Collected: 07/17/23 10:22
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-3

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	<50.1	U	50.1		mg/Kg		07/21/23 11:49	07/21/23 20:00	1
Diesel Range Organics (Over C10-C28)	**874**		50.1		mg/Kg		07/21/23 11:49	07/21/23 20:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/21/23 11:49	07/21/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:00*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.1**		4.96		mg/Kg			07/21/23 08:53	1

Client Sample ID: L9 FS_4'

Date Collected: 07/17/23 10:25
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-4

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		07/20/23 13:48	07/21/23 12:01	1
Toluene	**0.0118**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 12:01	1
Ethylbenzene	**0.121**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 12:01	1
m-Xylene & p-Xylene	**0.441**		0.00398		mg/Kg		07/20/23 13:48	07/21/23 12:01	1
o-Xylene	**0.145**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 12:01	1
Xylenes, Total	**0.586**		0.00398		mg/Kg		07/20/23 13:48	07/21/23 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*178*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 12:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/20/23 13:48*	*07/21/23 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.719**		0.00398		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4670**		50.4		mg/Kg			07/24/23 16:18	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	**226**		50.4		mg/Kg		07/21/23 11:49	07/21/23 20:22	1
Diesel Range Organics (Over C10-C28)	**4440**		50.4		mg/Kg		07/21/23 11:49	07/21/23 20:22	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/21/23 11:49	07/21/23 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:22*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:22*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: L9 FS_4'

Lab Sample ID: 890-4964-4
Matrix: Solid
Date Collected: 07/17/23 10:25
Date Received: 07/19/23 08:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		5.01		mg/Kg			07/21/23 08:58	1

Client Sample ID: K9 FS_4'

Lab Sample ID: 890-4964-5
Matrix: Solid
Date Collected: 07/17/23 10:34
Date Received: 07/19/23 08:40
Sample Depth: 4

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		07/20/23 13:48	07/21/23 12:22	1
Toluene	0.00457		0.00200		mg/Kg		07/20/23 13:48	07/21/23 12:22	1
Ethylbenzene	0.297		0.00200		mg/Kg		07/20/23 13:48	07/21/23 12:22	1
m-Xylene & p-Xylene	2.27		0.199		mg/Kg		07/23/23 09:31	07/23/23 20:24	50
o-Xylene	0.385		0.00200		mg/Kg		07/20/23 13:48	07/21/23 12:22	1
Xylenes, Total	16.0		0.199		mg/Kg		07/23/23 09:31	07/23/23 20:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*672*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 12:22*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/20/23 13:48*	*07/21/23 12:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.96		0.199		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9990		252		mg/Kg			07/24/23 16:18	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	354		50.4		mg/Kg		07/21/23 11:49	07/21/23 20:43	1
Diesel Range Organics (Over C10-C28)	9640		252		mg/Kg		07/21/23 11:49	07/22/23 10:09	5
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/21/23 11:49	07/21/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:43*	*1*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/21/23 11:49*	*07/22/23 10:09*	*5*
o-Terphenyl	*109*		*70 - 130*	*07/21/23 11:49*	*07/21/23 20:43*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/21/23 11:49*	*07/22/23 10:09*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6110		49.9		mg/Kg			07/21/23 09:03	10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: K10 FS_4'

Date Collected: 07/17/23 10:31
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-6
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		07/20/23 13:48	07/21/23 12:42	1
Toluene	**0.00281**		0.00201		mg/Kg		07/20/23 13:48	07/21/23 12:42	1
Ethylbenzene	**0.0434**		0.00201		mg/Kg		07/20/23 13:48	07/21/23 12:42	1
m-Xylene & p-Xylene	**0.141**		0.00402		mg/Kg		07/20/23 13:48	07/21/23 12:42	1
o-Xylene	**0.0478**		0.00201		mg/Kg		07/20/23 13:48	07/21/23 12:42	1
Xylenes, Total	**0.189**		0.00402		mg/Kg		07/20/23 13:48	07/21/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*242*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 12:42*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/20/23 13:48*	*07/21/23 12:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.235**		0.00402		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3370**		50.3		mg/Kg			07/24/23 16:18	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	**102**		50.3		mg/Kg		07/21/23 11:49	07/21/23 21:04	1
Diesel Range Organics (Over C10-C28)	**3270**		50.3		mg/Kg		07/21/23 11:49	07/21/23 21:04	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/21/23 11:49	07/21/23 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:04*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**684**		4.95		mg/Kg			07/21/23 09:19	1

Client Sample ID: J9 FS_4'

Date Collected: 07/17/23 10:37
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-7
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		07/20/23 13:48	07/21/23 13:03	1
Toluene	**0.00342**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:03	1
Ethylbenzene	**0.00558**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:03	1
m-Xylene & p-Xylene	**0.0175**		0.00404		mg/Kg		07/20/23 13:48	07/21/23 13:03	1
o-Xylene	**0.00594**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:03	1
Xylenes, Total	**0.0234**		0.00404		mg/Kg		07/20/23 13:48	07/21/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/20/23 13:48*	*07/21/23 13:03*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: J9 FS_4'

Date Collected: 07/17/23 10:37
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/20/23 13:48*	*07/21/23 13:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0324**		0.00404		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1730**		50.0		mg/Kg			07/24/23 16:18	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		07/21/23 11:49	07/21/23 21:25	1
Diesel Range Organics (Over C10-C28)	**1730**		50.0		mg/Kg		07/21/23 11:49	07/21/23 21:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/23 11:49	07/21/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:25*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1080**		4.97		mg/Kg			07/21/23 09:24	1

Client Sample ID: J10FS_4'

Date Collected: 07/17/23 10:41
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-8
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		07/20/23 13:48	07/21/23 13:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:23	1
Ethylbenzene	**0.00590**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:23	1
m-Xylene & p-Xylene	**0.0177**		0.00403		mg/Kg		07/20/23 13:48	07/21/23 13:23	1
o-Xylene	**0.00511**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 13:23	1
Xylenes, Total	**0.0228**		0.00403		mg/Kg		07/20/23 13:48	07/21/23 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/20/23 13:48*	*07/21/23 13:23*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/20/23 13:48*	*07/21/23 13:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0287**		0.00403		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1560**		49.9		mg/Kg			07/24/23 16:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: J10FS_4'

Date Collected: 07/17/23 10:41
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-8

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		07/21/23 11:49	07/21/23 21:46	1
Diesel Range Organics (Over C10-C28)	**1560**		49.9		mg/Kg		07/21/23 11:49	07/21/23 21:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/21/23 11:49	07/21/23 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/21/23 11:49*	*07/21/23 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		5.00		mg/Kg			07/21/23 09:29	1

Client Sample ID: J11 FS_4'

Date Collected: 07/17/23 10:43
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-9

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		07/20/23 13:48	07/21/23 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 13:44	1
Ethylbenzene	**0.0132**		0.00200		mg/Kg		07/20/23 13:48	07/21/23 13:44	1
m-Xylene & p-Xylene	**0.0209**		0.00401		mg/Kg		07/20/23 13:48	07/21/23 13:44	1
o-Xylene	**0.00456**		0.00200		mg/Kg		07/20/23 13:48	07/21/23 13:44	1
Xylenes, Total	**0.0255**		0.00401		mg/Kg		07/20/23 13:48	07/21/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 13:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/20/23 13:48*	*07/21/23 13:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0387**		0.00401		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2210**		49.7		mg/Kg			07/24/23 16:18	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	<49.7	U	49.7		mg/Kg		07/21/23 11:49	07/21/23 22:08	1
Diesel Range Organics (Over C10-C28)	**2210**		49.7		mg/Kg		07/21/23 11:49	07/21/23 22:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/21/23 11:49	07/21/23 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:08*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:08*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: J11 FS_4'

Lab Sample ID: 890-4964-9
Matrix: Solid
Date Collected: 07/17/23 10:43
Date Received: 07/19/23 08:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		24.8		mg/Kg			07/21/23 09:34	5

Client Sample ID: E6 FS_4'

Lab Sample ID: 890-4964-10
Matrix: Solid
Date Collected: 07/17/23 11:51
Date Received: 07/19/23 08:40
Sample Depth: 7

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		07/20/23 13:48	07/21/23 14:04	1
Toluene	0.00303		0.00200		mg/Kg		07/20/23 13:48	07/21/23 14:04	1
Ethylbenzene	0.0161		0.00200		mg/Kg		07/20/23 13:48	07/21/23 14:04	1
m-Xylene & p-Xylene	0.0196		0.00399		mg/Kg		07/20/23 13:48	07/21/23 14:04	1
o-Xylene	0.0219		0.00200		mg/Kg		07/20/23 13:48	07/21/23 14:04	1
Xylenes, Total	0.0415		0.00399		mg/Kg		07/20/23 13:48	07/21/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 14:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/20/23 13:48*	*07/21/23 14:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0606		0.00399		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2460		49.6		mg/Kg			07/24/23 16:18	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	51.3		49.6		mg/Kg		07/21/23 11:49	07/21/23 22:29	1
Diesel Range Organics (Over C10-C28)	2410		49.6		mg/Kg		07/21/23 11:49	07/21/23 22:29	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/21/23 11:49	07/21/23 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:29*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4550		25.2		mg/Kg			07/21/23 09:39	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: I8 FS_4'
Date Collected: 07/17/23 10:45
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-11
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		07/20/23 13:48	07/21/23 15:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:48	07/21/23 15:27	1
Ethylbenzene	**0.0243**		0.00198		mg/Kg		07/20/23 13:48	07/21/23 15:27	1
m-Xylene & p-Xylene	**0.0540**		0.00396		mg/Kg		07/20/23 13:48	07/21/23 15:27	1
o-Xylene	**0.0154**		0.00198		mg/Kg		07/20/23 13:48	07/21/23 15:27	1
Xylenes, Total	**0.0694**		0.00396		mg/Kg		07/20/23 13:48	07/21/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*281*	*S1+*	*70 - 130*	*07/20/23 13:48*	*07/21/23 15:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/20/23 13:48*	*07/21/23 15:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0937**		0.00396		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7460**		50.2		mg/Kg			07/24/23 16:18	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	**94.2**		50.2		mg/Kg		07/21/23 11:49	07/21/23 22:50	1
Diesel Range Organics (Over C10-C28)	**7370**		50.2		mg/Kg		07/21/23 11:49	07/21/23 22:50	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/21/23 11:49	07/21/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:50*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/21/23 11:49*	*07/21/23 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6790**		49.9		mg/Kg			07/21/23 09:44	10

Client Sample ID: I9 FS_4'
Date Collected: 07/17/23 10:47
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-12
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		07/20/23 13:48	07/21/23 15:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:48	07/21/23 15:48	1
Ethylbenzene	**0.00276**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 15:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/23 13:48	07/21/23 15:48	1
o-Xylene	**0.00233**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 15:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/23 13:48	07/21/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/20/23 13:48*	*07/21/23 15:48*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: I9 FS_4'

Date Collected: 07/17/23 10:47
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-12

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/20/23 13:48*	*07/21/23 15:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00509**		0.00398		mg/Kg			07/21/23 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1760**		50.4		mg/Kg			07/24/23 16:18	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	<50.4	U	50.4		mg/Kg		07/21/23 11:49	07/21/23 23:11	1
Diesel Range Organics (Over C10-C28)	**1760**		50.4		mg/Kg		07/21/23 11:49	07/21/23 23:11	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/21/23 11:49	07/21/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/21/23 11:49*	*07/21/23 23:11*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/21/23 11:49*	*07/21/23 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10800**		99.0		mg/Kg			07/21/23 10:00	20

Client Sample ID: I10 FS_4'

Date Collected: 07/17/23 10:59
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-13

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		07/23/23 09:31	07/23/23 19:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:23	1
Ethylbenzene	**0.0645**		0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:23	1
m-Xylene & p-Xylene	**0.0648**		0.00404		mg/Kg		07/23/23 09:31	07/23/23 19:23	1
o-Xylene	**0.0892**		0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:23	1
Xylenes, Total	**0.154**		0.00404		mg/Kg		07/23/23 09:31	07/23/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*237*	*S1+*	*70 - 130*	*07/23/23 09:31*	*07/23/23 19:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/23/23 09:31*	*07/23/23 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.219**		0.00404		mg/Kg			07/24/23 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**9950**		248		mg/Kg			07/24/23 15:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: I10 FS_4'

Lab Sample ID: 890-4964-13
Matrix: Solid
Date Collected: 07/17/23 10:59
Date Received: 07/19/23 08:40
Sample Depth: 4

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	277		49.7		mg/Kg		07/21/23 14:41	07/23/23 12:16	1
Diesel Range Organics (Over C10-C28)	9370		248		mg/Kg		07/21/23 14:41	07/24/23 07:58	5
Oil Range Organics (Over C28-C36)	299		49.7		mg/Kg		07/21/23 14:41	07/23/23 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 12:16*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 12:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4070		25.1		mg/Kg			07/21/23 10:05	5

Client Sample ID: I11 FS_4'

Lab Sample ID: 890-4964-14
Matrix: Solid
Date Collected: 07/17/23 11:04
Date Received: 07/19/23 08:40
Sample Depth: 4

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		07/23/23 09:31	07/23/23 19:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:43	1
Ethylbenzene	0.00447		0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/23/23 09:31	07/23/23 19:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/23/23 09:31	07/23/23 19:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/23/23 09:31	07/23/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/23/23 09:31*	*07/23/23 19:43*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/23/23 09:31*	*07/23/23 19:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00447		0.00403		mg/Kg			07/24/23 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4750		49.5		mg/Kg			07/24/23 15:32	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	114		49.5		mg/Kg		07/21/23 14:41	07/23/23 12:39	1
Diesel Range Organics (Over C10-C28)	4460		49.5		mg/Kg		07/21/23 14:41	07/23/23 12:39	1
Oil Range Organics (Over C28-C36)	171		49.5		mg/Kg		07/21/23 14:41	07/23/23 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/21/23 14:41*	*07/23/23 12:39*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: I11 FS_4'
Date Collected: 07/17/23 11:04
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-14
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 12:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		24.9		mg/Kg			07/21/23 10:20	5

Client Sample ID: H4 FS_7'
Date Collected: 07/17/23 11:05
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-15
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		07/23/23 09:31	07/23/23 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/23/23 09:31	07/23/23 20:04	1
Ethylbenzene	**0.00318**		0.00199		mg/Kg		07/23/23 09:31	07/23/23 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/23/23 09:31	07/23/23 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/23/23 09:31	07/23/23 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/23/23 09:31	07/23/23 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/23/23 09:31*	*07/23/23 20:04*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/23/23 09:31*	*07/23/23 20:04*	*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			07/24/23 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4950**		50.3		mg/Kg			07/24/23 15:32	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	<50.3	U	50.3		mg/Kg		07/21/23 14:41	07/23/23 11:09	1
Diesel Range Organics (Over C10-C28)	**4820**		50.3		mg/Kg		07/21/23 14:41	07/23/23 11:09	1
Oil Range Organics (Over C28-C36)	**129**		50.3		mg/Kg		07/21/23 14:41	07/23/23 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*121*		*70 - 130*	*07/21/23 14:41*	*07/23/23 11:09*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 11:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3590**		24.8		mg/Kg			07/21/23 10:25	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: H5 FS_4'

Date Collected: 07/17/23 11:07
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-16

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		07/20/23 13:48	07/21/23 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 17:31	1
Ethylbenzene	**0.00504**		0.00200		mg/Kg		07/20/23 13:48	07/21/23 17:31	1
m-Xylene & p-Xylene	**0.0413**		0.00399		mg/Kg		07/20/23 13:48	07/21/23 17:31	1
o-Xylene	**0.0199**		0.00200		mg/Kg		07/20/23 13:48	07/21/23 17:31	1
Xylenes, Total	**0.0612**		0.00399		mg/Kg		07/20/23 13:48	07/21/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/20/23 13:48*	*07/21/23 17:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/20/23 13:48*	*07/21/23 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0662**		0.00399		mg/Kg			07/22/23 08:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**319**		50.5		mg/Kg			07/24/23 15:32	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	<50.5	U	50.5		mg/Kg		07/21/23 14:41	07/23/23 16:34	1
Diesel Range Organics (Over C10-C28)	**319**		50.5		mg/Kg		07/21/23 14:41	07/23/23 16:34	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/21/23 14:41	07/23/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/21/23 14:41*	*07/23/23 16:34*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**		4.95		mg/Kg			07/21/23 10:30	1

Client Sample ID: H8 FS_4'

Date Collected: 07/17/23 11:08
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-17

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		07/20/23 13:48	07/21/23 17:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:48	07/21/23 17:51	1
Ethylbenzene	**0.00777**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 17:51	1
m-Xylene & p-Xylene	**0.0103**		0.00398		mg/Kg		07/20/23 13:48	07/21/23 17:51	1
o-Xylene	**0.0103**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 17:51	1
Xylenes, Total	**0.0206**		0.00398		mg/Kg		07/20/23 13:48	07/21/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/20/23 13:48*	*07/21/23 17:51*	*1*

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: H8 FS_4'

Lab Sample ID: 890-4964-17
Matrix: Solid
Date Collected: 07/17/23 11:08
Date Received: 07/19/23 08:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/20/23 13:48*	*07/21/23 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0284**		0.00398		mg/Kg			07/22/23 08:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1030**		50.4		mg/Kg			07/24/23 15:32	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	**105**		50.4		mg/Kg		07/21/23 14:41	07/23/23 16:55	1
Diesel Range Organics (Over C10-C28)	**855**		50.4		mg/Kg		07/21/23 14:41	07/23/23 16:55	1
OII Range Organics (Over C28-C36)	**68.6**		50.4		mg/Kg		07/21/23 14:41	07/23/23 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 16:55*	*1*
o-Terphenyl	*168*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 16:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2570**		25.1		mg/Kg			07/21/23 10:35	5

Client Sample ID: H9 FS_7'

Lab Sample ID: 890-4964-18
Matrix: Solid
Date Collected: 07/17/23 11:11
Date Received: 07/19/23 08:40
Sample Depth: 7

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		07/20/23 13:48	07/21/23 18:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:48	07/21/23 18:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:48	07/21/23 18:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/23 13:48	07/21/23 18:11	1
o-Xylene	**0.00739**		0.00201		mg/Kg		07/20/23 13:48	07/21/23 18:11	1
Xylenes, Total	**0.00739**		0.00402		mg/Kg		07/20/23 13:48	07/21/23 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/20/23 13:48*	*07/21/23 18:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/20/23 13:48*	*07/21/23 18:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00739**		0.00402		mg/Kg			07/22/23 08:06	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: H9 FS_7'

Date Collected: 07/17/23 11:11
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**354**		50.1		mg/Kg			07/24/23 15:32	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	<50.1	U	50.1		mg/Kg		07/21/23 14:41	07/23/23 17:17	1
Diesel Range Organics (Over C10-C28)	**354**		50.1		mg/Kg		07/21/23 14:41	07/23/23 17:17	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/21/23 14:41	07/23/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*07/21/23 14:41*	*07/23/23 17:17*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/23/23 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4410**		25.3		mg/Kg			07/21/23 10:41	5

Client Sample ID: H10 FS_7'

Date Collected: 07/17/23 11:15
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-19
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		07/20/23 13:48	07/21/23 18:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:48	07/21/23 18:32	1
Ethylbenzene	**0.00330**		0.00202		mg/Kg		07/20/23 13:48	07/21/23 18:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/20/23 13:48	07/21/23 18:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:48	07/21/23 18:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/20/23 13:48	07/21/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/20/23 13:48*	*07/21/23 18:32*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/20/23 13:48*	*07/21/23 18:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/22/23 08:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4450**		50.0		mg/Kg			07/24/23 15:32	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	**116**		50.0		mg/Kg		07/21/23 14:41	07/23/23 17:39	1
Diesel Range Organics (Over C10-C28)	**4170**		50.0		mg/Kg		07/21/23 14:41	07/23/23 17:39	1
Oil Range Organics (Over C28-C36)	**166**		50.0		mg/Kg		07/21/23 14:41	07/23/23 17:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: H10 FS_7'

Date Collected: 07/17/23 11:15
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-19

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	07/21/23 14:41	07/23/23 17:39	1
o-Terphenyl	152	S1+	70 - 130	07/21/23 14:41	07/23/23 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3940**		24.9		mg/Kg			07/21/23 10:46	5

Client Sample ID: G4 FS_4'

Date Collected: 07/17/23 11:18
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-20

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		07/20/23 13:48	07/21/23 18:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:48	07/21/23 18:52	1
Ethylbenzene	**0.00350**		0.00199		mg/Kg		07/20/23 13:48	07/21/23 18:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/23 13:48	07/21/23 18:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:48	07/21/23 18:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/23 13:48	07/21/23 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/20/23 13:48	07/21/23 18:52	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/20/23 13:48	07/21/23 18:52	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			07/22/23 08:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4440**		49.6		mg/Kg			07/24/23 15:32	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	**105**		49.6		mg/Kg		07/21/23 14:41	07/23/23 18:01	1
Diesel Range Organics (Over C10-C28)	**4160**		49.6		mg/Kg		07/21/23 14:41	07/23/23 18:01	1
Oil Range Organics (Over C28-C36)	**176**		49.6		mg/Kg		07/21/23 14:41	07/23/23 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	07/21/23 14:41	07/23/23 18:01	1
o-Terphenyl	155	S1+	70 - 130	07/21/23 14:41	07/23/23 18:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3280**		24.8		mg/Kg			07/21/23 10:51	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G5 FS_7'

Date Collected: 07/17/23 11:21
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-21

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		07/20/23 13:41	07/22/23 11:43	1
Toluene	**0.0130**		0.00198		mg/Kg		07/20/23 13:41	07/22/23 11:43	1
Ethylbenzene	**0.0142**		0.00198		mg/Kg		07/20/23 13:41	07/22/23 11:43	1
m-Xylene & p-Xylene	**0.141**		0.00396		mg/Kg		07/20/23 13:41	07/22/23 11:43	1
o-Xylene	**0.0571**		0.00198		mg/Kg		07/20/23 13:41	07/22/23 11:43	1
Xylenes, Total	**0.198**		0.00396		mg/Kg		07/20/23 13:41	07/22/23 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/20/23 13:41*	*07/22/23 11:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/20/23 13:41*	*07/22/23 11:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.225**		0.00396		mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4960**		49.7		mg/Kg			07/24/23 15:32	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	**464**		49.7		mg/Kg		07/21/23 14:41	07/24/23 06:31	1
Diesel Range Organics (Over C10-C28)	**4360**		49.7		mg/Kg		07/21/23 14:41	07/24/23 06:31	1
Oil Range Organics (Over C28-C36)	**135**		49.7		mg/Kg		07/21/23 14:41	07/24/23 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/24/23 06:31*	*1*
o-Terphenyl	*164*	*S1+*	*70 - 130*	*07/21/23 14:41*	*07/24/23 06:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4320**		24.9		mg/Kg			07/21/23 03:52	5

Client Sample ID: G6 FS_4'

Date Collected: 07/17/23 11:24
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-22

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		07/20/23 13:41	07/22/23 12:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 12:04	1
Ethylbenzene	**0.0165**		0.00200		mg/Kg		07/20/23 13:41	07/22/23 12:04	1
m-Xylene & p-Xylene	**0.00899**		0.00401		mg/Kg		07/20/23 13:41	07/22/23 12:04	1
o-Xylene	**0.0202**		0.00200		mg/Kg		07/20/23 13:41	07/22/23 12:04	1
Xylenes, Total	**0.0292**		0.00401		mg/Kg		07/20/23 13:41	07/22/23 12:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G6 FS_4'

Date Collected: 07/17/23 11:24
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:04*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0457**		0.00401		mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**459**		49.7		mg/Kg			07/24/23 15:32	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	**53.0**		49.7		mg/Kg		07/21/23 14:41	07/24/23 07:14	1
Diesel Range Organics (Over C10-C28)	**406**		49.7		mg/Kg		07/21/23 14:41	07/24/23 07:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/21/23 14:41	07/24/23 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/21/23 14:41*	*07/24/23 07:14*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/21/23 14:41*	*07/24/23 07:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		4.99		mg/Kg			07/21/23 03:58	1

Client Sample ID: G7 FS_4'

Date Collected: 07/17/23 11:27
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-23

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		07/20/23 13:41	07/22/23 12:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 12:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 12:25	1
m-Xylene & p-Xylene	**0.00401**		0.00397		mg/Kg		07/20/23 13:41	07/22/23 12:25	1
o-Xylene	**0.00453**		0.00198		mg/Kg		07/20/23 13:41	07/22/23 12:25	1
Xylenes, Total	**0.00854**		0.00397		mg/Kg		07/20/23 13:41	07/22/23 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:25*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00854**		0.00397		mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**218**		49.9		mg/Kg			07/27/23 08:30	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G7 FS_4'

Date Collected: 07/17/23 11:27
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-23

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	68.2		49.9		mg/Kg		07/24/23 08:30	07/26/23 10:38	1
Diesel Range Organics (Over C10-C28)	150		49.9		mg/Kg		07/24/23 08:30	07/26/23 10:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/24/23 08:30	07/26/23 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/24/23 08:30*	*07/26/23 10:38*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/24/23 08:30*	*07/26/23 10:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		5.01		mg/Kg			07/21/23 04:13	1

Client Sample ID: G8 FS_4'

Date Collected: 07/17/23 11:31
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-24

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		07/20/23 13:41	07/22/23 12:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:41	07/22/23 12:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:41	07/22/23 12:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/23 13:41	07/22/23 12:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:41	07/22/23 12:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/20/23 13:41	07/22/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:46*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/20/23 13:41*	*07/22/23 12:46*	*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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.1		50.0		mg/Kg			07/27/23 08:30	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		07/24/23 08:30	07/26/23 14:49	1
Diesel Range Organics (Over C10-C28)	75.1		50.0		mg/Kg		07/24/23 08:30	07/26/23 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/23 08:30	07/26/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/24/23 08:30*	*07/26/23 14:49*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/24/23 08:30*	*07/26/23 14:49*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G8 FS_4'

Lab Sample ID: 890-4964-24
Matrix: Solid
Date Collected: 07/17/23 11:31
Date Received: 07/19/23 08:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		25.0		mg/Kg			07/21/23 04:18	5

Client Sample ID: G9 FS_7'

Lab Sample ID: 890-4964-25
Matrix: Solid
Date Collected: 07/17/23 11:34
Date Received: 07/19/23 08:40
Sample Depth: 7

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		07/20/23 13:41	07/22/23 13:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:41	07/22/23 13:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:41	07/22/23 13:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/20/23 13:41	07/22/23 13:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/20/23 13:41	07/22/23 13:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/20/23 13:41	07/22/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/20/23 13:41*	*07/22/23 13:07*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/20/23 13:41*	*07/22/23 13:07*	*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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3840		49.9		mg/Kg			07/27/23 08:30	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	72.8		49.9		mg/Kg		07/24/23 08:30	07/26/23 15:11	1
Diesel Range Organics (Over C10-C28)	3550		49.9		mg/Kg		07/24/23 08:30	07/26/23 15:11	1
Oil Range Organics (Over C28-C36)	217		49.9		mg/Kg		07/24/23 08:30	07/26/23 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*07/24/23 08:30*	*07/26/23 15:11*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/24/23 08:30*	*07/26/23 15:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3190		25.0		mg/Kg			07/21/23 04:23	5

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G10 FS_7'

Date Collected: 07/17/23 11:37
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-26
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		07/20/23 13:41	07/22/23 13:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:41	07/22/23 13:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:41	07/22/23 13:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/23 13:41	07/22/23 13:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/20/23 13:41	07/22/23 13:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/23 13:41	07/22/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/20/23 13:41*	*07/22/23 13:27*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/20/23 13:41*	*07/22/23 13:27*	*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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**271**		49.8		mg/Kg			07/27/23 08:30	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		07/24/23 08:30	07/26/23 15:33	1
Diesel Range Organics (Over C10-C28)	**271**		49.8		mg/Kg		07/24/23 08:30	07/26/23 15:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/24/23 08:30	07/26/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*07/24/23 08:30*	*07/26/23 15:33*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/24/23 08:30*	*07/26/23 15:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**851**		4.97		mg/Kg			07/21/23 04:28	1

Client Sample ID: F5 FS_7'

Date Collected: 07/17/23 11:41
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-27
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		07/20/23 13:41	07/22/23 14:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 14:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 14:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/20/23 13:41	07/22/23 14:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 14:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/20/23 13:41	07/22/23 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/20/23 13:41*	*07/22/23 14:51*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: F5 FS_7'

Lab Sample ID: 890-4964-27
Matrix: Solid
Date Collected: 07/17/23 11:41
Date Received: 07/19/23 08:40
Sample Depth: 7

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/20/23 13:41*	*07/22/23 14:51*	*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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**280**		49.9		mg/Kg			07/27/23 08:30	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		07/24/23 08:30	07/26/23 15:55	1
Diesel Range Organics (Over C10-C28)	**280**		49.9		mg/Kg		07/24/23 08:30	07/26/23 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/24/23 08:30	07/26/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*07/24/23 08:30*	*07/26/23 15:55*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*07/24/23 08:30*	*07/26/23 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		4.97		mg/Kg			07/21/23 04:33	1

Client Sample ID: F6 FS_7'

Lab Sample ID: 890-4964-28
Matrix: Solid
Date Collected: 07/17/23 11:43
Date Received: 07/19/23 08:40
Sample Depth: 7

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		07/20/23 13:41	07/22/23 15:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 15:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 15:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/20/23 13:41	07/22/23 15:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/20/23 13:41	07/22/23 15:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/20/23 13:41	07/22/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:12*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:12*	*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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**654**		49.8		mg/Kg			07/27/23 08:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: F6 FS_7'
Date Collected: 07/17/23 11:43
Date Received: 07/19/23 08:40
Sample Depth: 7

Lab Sample ID: 890-4964-28
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	<49.8	U	49.8		mg/Kg		07/24/23 08:30	07/26/23 16:18	1
Diesel Range Organics (Over C10-C28)	**654**		49.8		mg/Kg		07/24/23 08:30	07/26/23 16:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/24/23 08:30	07/26/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/24/23 08:30*	*07/26/23 16:18*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/24/23 08:30*	*07/26/23 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3850**		25.3		mg/Kg			07/21/23 04:39	5

Client Sample ID: F7 FS_4'
Date Collected: 07/17/23 11:45
Date Received: 07/19/23 08:40
Sample Depth: 4

Lab Sample ID: 890-4964-29
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		07/20/23 13:41	07/22/23 15:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:41	07/22/23 15:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/23 13:41	07/22/23 15:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/23 13:41	07/22/23 15:33	1
o-Xylene	**0.00404**		0.00201		mg/Kg		07/20/23 13:41	07/22/23 15:33	1
Xylenes, Total	**0.00404**		0.00402		mg/Kg		07/20/23 13:41	07/22/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:33*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00404**		0.00402		mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**162**		49.9		mg/Kg			07/27/23 08:30	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		07/24/23 08:30	07/26/23 16:40	1
Diesel Range Organics (Over C10-C28)	**162**		49.9		mg/Kg		07/24/23 08:30	07/26/23 16:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/24/23 08:30	07/26/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/24/23 08:30*	*07/26/23 16:40*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/24/23 08:30*	*07/26/23 16:40*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: F7 FS_4'

Lab Sample ID: 890-4964-29
Matrix: Solid
Date Collected: 07/17/23 11:45
Date Received: 07/19/23 08:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		5.01		mg/Kg			07/21/23 04:44	1

Client Sample ID: F4 FS_7'

Lab Sample ID: 890-4964-30
Matrix: Solid
Date Collected: 07/17/23 11:47
Date Received: 07/19/23 08:40
Sample Depth: 7

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		07/20/23 13:41	07/22/23 15:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 15:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 15:53	1
m-Xylene & p-Xylene	**0.00528**		0.00401		mg/Kg		07/20/23 13:41	07/22/23 15:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 15:53	1
Xylenes, Total	**0.00528**		0.00401		mg/Kg		07/20/23 13:41	07/22/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:53*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/20/23 13:41*	*07/22/23 15:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00528**		0.00401		mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**264**		50.0		mg/Kg			07/27/23 08:30	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		07/24/23 08:30	07/26/23 17:03	1
Diesel Range Organics (Over C10-C28)	**264**		50.0		mg/Kg		07/24/23 08:30	07/26/23 17:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/23 08:30	07/26/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/24/23 08:30*	*07/26/23 17:03*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/24/23 08:30*	*07/26/23 17:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7040**		49.6		mg/Kg			07/21/23 03:21	10

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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)
880-30699-A-2-G MS	Matrix Spike	89	111
880-30699-A-2-H MSD	Matrix Spike Duplicate	91	113
890-4962-A-21-D MS	Matrix Spike	97	99
890-4962-A-21-E MSD	Matrix Spike Duplicate	108	95
890-4964-1	O9 FS_4'	120	102
890-4964-1 MS	O9 FS_4'	95	108
890-4964-1 MSD	O9 FS_4'	105	102
890-4964-2	N9FS_4'	96	96
890-4964-3	M9 FS_4'	132 S1+	89
890-4964-4	L9 FS_4'	178 S1+	99
890-4964-5	K9 FS_4'	672 S1+	89
890-4964-6	K10 FS_4'	242 S1+	97
890-4964-7	J9 FS_4'	120	88
890-4964-8	J10FS_4'	107	96
890-4964-9	J11 FS_4'	166 S1+	99
890-4964-10	E6 FS_4'	152 S1+	97
890-4964-11	I8 FS_4'	281 S1+	93
890-4964-12	I9 FS_4'	118	99
890-4964-13	I10 FS_4'	237 S1+	106
890-4964-14	I11 FS_4'	115	102
890-4964-15	H4 FS_7'	95	107
890-4964-16	H5 FS_4'	92	102
890-4964-17	H8 FS_4'	119	102
890-4964-18	H9 FS_7'	90	95
890-4964-19	H10 FS_7'	105	108
890-4964-20	G4 FS_4'	111	110
890-4964-21	G5 FS_7'	125	104
890-4964-22	G6 FS_4'	119	105
890-4964-23	G7 FS_4'	98	110
890-4964-24	G8 FS_4'	91	109
890-4964-25	G9 FS_7'	97	111
890-4964-26	G10 FS_7'	91	108
890-4964-27	F5 FS_7'	91	102
890-4964-28	F6 FS_7'	87	110
890-4964-29	F7 FS_4'	100	109
890-4964-30	F4 FS_7'	104	110
LCS 880-58149/1-A	Lab Control Sample	95	99
LCS 880-58150/1-A	Lab Control Sample	126	93
LCS 880-58284/1-A	Lab Control Sample	85	111
LCSD 880-58149/2-A	Lab Control Sample Dup	100	99
LCSD 880-58150/2-A	Lab Control Sample Dup	126	96
LCSD 880-58284/2-A	Lab Control Sample Dup	92	108
MB 880-58106/5-A	Method Blank	76	80
MB 880-58149/5-A	Method Blank	87	91
MB 880-58150/5-A	Method Blank	76	88
MB 880-58284/5-A	Method Blank	73	91

Surrogate Legend

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

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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)
890-4962-A-17-D MS	Matrix Spike	94	85
890-4962-A-17-E MSD	Matrix Spike Duplicate	0.03 S1-	0 S1-
890-4964-1	O9 FS_4'	90	85
890-4964-2	N9FS_4'	85	82
890-4964-3	M9 FS_4'	85	82
890-4964-4	L9 FS_4'	102	88
890-4964-5	K9 FS_4'	113	109
890-4964-5	K9 FS_4'	135 S1+	111
890-4964-6	K10 FS_4'	94	83
890-4964-7	J9 FS_4'	88	84
890-4964-8	J10FS_4'	82	78
890-4964-9	J11 FS_4'	94	88
890-4964-10	E6 FS_4'	95	91
890-4964-11	I8 FS_4'	100	97
890-4964-12	I9 FS_4'	86	81
890-4964-13	I10 FS_4'	134 S1+	146 S1+
890-4964-14	I11 FS_4'	117	132 S1+
890-4964-15	H4 FS_7'	121	155 S1+
890-4964-15 MS	H4 FS_7'	137 S1+	160 S1+
890-4964-15 MSD	H4 FS_7'	122	147 S1+
890-4964-16	H5 FS_4'	106	131 S1+
890-4964-17	H8 FS_4'	136 S1+	168 S1+
890-4964-18	H9 FS_7'	127	153 S1+
890-4964-19	H10 FS_7'	127	152 S1+
890-4964-20	G4 FS_4'	129	155 S1+
890-4964-21	G5 FS_7'	149 S1+	164 S1+
890-4964-22	G6 FS_4'	106	117
890-4964-23	G7 FS_4'	101	117
890-4964-23 MS	G7 FS_4'	101	103
890-4964-23 MSD	G7 FS_4'	100	102
890-4964-24	G8 FS_4'	110	122
890-4964-25	G9 FS_7'	121	126
890-4964-26	G10 FS_7'	119	133 S1+
890-4964-27	F5 FS_7'	154 S1+	172 S1+
890-4964-28	F6 FS_7'	109	121
890-4964-29	F7 FS_4'	87	94
890-4964-30	F4 FS_7'	101	114
LCS 880-58234/2-A	Lab Control Sample	89	83
LCS 880-58243/2-A	Lab Control Sample	86	111
LCS 880-58294/2-A	Lab Control Sample	87	118
LCSD 880-58234/3-A	Lab Control Sample Dup	89	83
LCSD 880-58243/3-A	Lab Control Sample Dup	90	110
LCSD 880-58294/3-A	Lab Control Sample Dup	88	120
MB 880-58234/1-A	Method Blank	96	99
MB 880-58243/1-A	Method Blank	145 S1+	178 S1+
MB 880-58294/1-A	Method Blank	135 S1+	178 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58106/5-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 10:15	07/21/23 00:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/23 10:15	07/21/23 00:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/20/23 10:15*	*07/21/23 00:04*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/20/23 10:15*	*07/21/23 00:04*	*1*

Lab Sample ID: MB 880-58149/5-A
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 09:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/23 13:41	07/22/23 09:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:41	07/22/23 09:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/23 13:41	07/22/23 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/20/23 13:41*	*07/22/23 09:58*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/20/23 13:41*	*07/22/23 09:58*	*1*

Lab Sample ID: LCS 880-58149/1-A
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1074		mg/Kg		107	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09756		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1879		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09244		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-58149/2-A
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1151		mg/Kg		115	70 - 130	7	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: LCSD 880-58149/2-A
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1186		mg/Kg		119	70 - 130	9	35
Ethylbenzene			0.100	0.1085		mg/Kg		108	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.2100		mg/Kg		105	70 - 130	11	35
o-Xylene			0.100	0.1028		mg/Kg		103	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-4962-A-21-D MS
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0994	0.09048		mg/Kg		91	70 - 130		
Toluene	<0.00202	U	0.0994	0.08995		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00202	U	0.0994	0.07772		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1496		mg/Kg		75	70 - 130		
o-Xylene	<0.00202	U	0.0994	0.07552		mg/Kg		76	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-4962-A-21-E MSD
Matrix: Solid
Analysis Batch: 58258

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.09473		mg/Kg		95	70 - 130	5	35
Toluene	<0.00202	U	0.0998	0.1066		mg/Kg		107	70 - 130	17	35
Ethylbenzene	<0.00202	U	0.0998	0.09994		mg/Kg		100	70 - 130	25	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1970		mg/Kg		99	70 - 130	27	35
o-Xylene	<0.00202	U	0.0998	0.09769		mg/Kg		98	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-58150/5-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/23 13:48	07/21/23 10:38	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: MB 880-58150/5-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/23 13:48	07/21/23 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/23 13:48	07/21/23 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/20/23 13:48*	*07/21/23 10:38*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/20/23 13:48*	*07/21/23 10:38*	*1*

Lab Sample ID: LCS 880-58150/1-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1135		mg/Kg		114	70 - 130
Toluene	0.100	0.1072		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1290		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	0.200	0.2381		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1266		mg/Kg		127	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-58150/2-A
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58150

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	7	35
Toluene	0.100	0.09939		mg/Kg		99	70 - 130	8	35
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2454		mg/Kg		123	70 - 130	3	35
o-Xylene	0.100	0.1233		mg/Kg		123	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-4964-1 MS
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: O9 FS_4'
Prep Type: Total/NA
Prep Batch: 58150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.1212		mg/Kg		122	70 - 130
Toluene	<0.00198	U	0.0994	0.08115		mg/Kg		82	70 - 130
Ethylbenzene	0.00297	F1	0.0994	0.07038	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	0.00431	F1	0.199	0.1405	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00198	U F1	0.0994	0.06594	F1	mg/Kg		65	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: 890-4964-1 MS
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: O9 FS_4'
Prep Type: Total/NA
Prep Batch: 58150

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4964-1 MSD
Matrix: Solid
Analysis Batch: 58088

Client Sample ID: O9 FS_4'
Prep Type: Total/NA
Prep Batch: 58150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0992	0.1089		mg/Kg		110	70 - 130	11	35
Toluene	<0.00198	U	0.0992	0.09097		mg/Kg		92	70 - 130	11	35
Ethylbenzene	0.00297	F1	0.0992	0.07043	F1	mg/Kg		68	70 - 130	0	35
m-Xylene & p-Xylene	0.00431	F1	0.198	0.1488		mg/Kg		73	70 - 130	6	35
o-Xylene	<0.00198	U F1	0.0992	0.06900	F1	mg/Kg		69	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-58284/5-A
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/23 09:31	07/23/23 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/23 09:31	07/23/23 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/23 09:31	07/23/23 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/23/23 09:31	07/23/23 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/23 09:31	07/23/23 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/23/23 09:31	07/23/23 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/23/23 09:31	07/23/23 12:31	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/23/23 09:31	07/23/23 12:31	1

Lab Sample ID: LCS 880-58284/1-A
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1275		mg/Kg		128	70 - 130		
Toluene			0.100	0.09515		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09344		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1844		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09659		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: LCS 880-58284/1-A
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58284

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

Lab Sample ID: LCSD 880-58284/2-A
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1202		mg/Kg		120	70 - 130	6	35
Toluene			0.100	0.09179		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09322		mg/Kg		93	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1857		mg/Kg		93	70 - 130	1	35
o-Xylene			0.100	0.09554		mg/Kg		96	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-30699-A-2-G MS
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0994	0.1200		mg/Kg		121	70 - 130		
Toluene	<0.00199	U	0.0994	0.08894		mg/Kg		89	70 - 130		
Ethylbenzene	<0.00199	U	0.0994	0.08556		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1686		mg/Kg		85	70 - 130		
o-Xylene	<0.00199	U	0.0994	0.08537		mg/Kg		86	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-30699-A-2-H MSD
Matrix: Solid
Analysis Batch: 58286

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.1258		mg/Kg		126	70 - 130	5	35
Toluene	<0.00199	U	0.0998	0.09458		mg/Kg		95	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.0998	0.09224		mg/Kg		92	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1838		mg/Kg		92	70 - 130	9	35
o-Xylene	<0.00199	U	0.0998	0.09742		mg/Kg		98	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: MB 880-58234/1-A
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58234

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		07/21/23 11:49	07/21/23 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/23 11:49	07/21/23 12:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/23 11:49	07/21/23 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/21/23 11:49*	*07/21/23 12:00*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/21/23 11:49*	*07/21/23 12:00*	*1*

Lab Sample ID: LCS 880-58234/2-A
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	795.1		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	922.1		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-58234/3-A
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	792.3		mg/Kg		79	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	927.0		mg/Kg		93	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-4962-A-17-D MS
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U F1	1010	858.7		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U F1	1010	906.1		mg/Kg		87	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: 890-4962-A-17-D MS
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58234

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-4962-A-17-E MSD
Matrix: Solid
Analysis Batch: 58186

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58234

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	<50.4	U F1	1010	<50.3	U F1	mg/Kg		0	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	<50.4	U F1	1010	<50.3	U F1	mg/Kg		0	70 - 130	NC	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	0.03	S1-	70 - 130
o-Terphenyl	0	S1-	70 - 130

Lab Sample ID: MB 880-58243/1-A
Matrix: Solid
Analysis Batch: 58278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58243

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		07/21/23 14:41	07/23/23 08:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/23 14:41	07/23/23 08:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/23 14:41	07/23/23 08:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	07/21/23 14:41	07/23/23 08:31	1
o-Terphenyl	178	S1+	70 - 130	07/21/23 14:41	07/23/23 08:31	1

Lab Sample ID: LCS 880-58243/2-A
Matrix: Solid
Analysis Batch: 58278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	948.0		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	111		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: LCSD 880-58243/3-A
Matrix: Solid
Analysis Batch: 58278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1071		mg/Kg		107	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 890-4964-15 MS
Matrix: Solid
Analysis Batch: 58278

Client Sample ID: H4 FS_7'
Prep Type: Total/NA
Prep Batch: 58243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	995	1128		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	4820		995	6752	4	mg/Kg		194	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*137*	*S1+*	*70 - 130*
o-Terphenyl	*160*	*S1+*	*70 - 130*

Lab Sample ID: 890-4964-15 MSD
Matrix: Solid
Analysis Batch: 58278

Client Sample ID: H4 FS_7'
Prep Type: Total/NA
Prep Batch: 58243

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	<50.3	U	995	957.2		mg/Kg		93	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	4820		995	6230	4	mg/Kg		141	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*147*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-58294/1-A
Matrix: Solid
Analysis Batch: 58509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58294

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		07/24/23 08:30	07/26/23 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/24/23 08:30	07/26/23 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/23 08:30	07/26/23 07:53	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: MB 880-58294/1-A
Matrix: Solid
Analysis Batch: 58509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58294

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	07/24/23 08:30	07/26/23 07:53	1
o-Terphenyl	178	S1+	70 - 130	07/24/23 08:30	07/26/23 07:53	1

Lab Sample ID: LCS 880-58294/2-A
Matrix: Solid
Analysis Batch: 58509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.7		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-58294/3-A
Matrix: Solid
Analysis Batch: 58509

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1051		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	952.9		mg/Kg		95	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-4964-23 MS
Matrix: Solid
Analysis Batch: 58509

Client Sample ID: G7 FS_4'
Prep Type: Total/NA
Prep Batch: 58294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	68.2		998	1286		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	150		998	1195		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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

Lab Sample ID: 890-4964-23 MSD — **Client Sample ID: G7 FS_4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58509 — **Prep Batch: 58294**

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	68.2		997	1277		mg/Kg		121	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	150		997	974.1		mg/Kg		83	70 - 130	20	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58100/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/23 14:12	1

Lab Sample ID: LCS 880-58100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-58100/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.8		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-4894-A-3-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	412		252	685.2		mg/Kg		108	90 - 110

Lab Sample ID: 890-4894-A-3-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	412		252	679.7		mg/Kg		106	90 - 110	1	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-58093/1-A
Matrix: Solid
Analysis Batch: 58178

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			07/21/23 00:53	1

Lab Sample ID: LCS 880-58093/2-A
Matrix: Solid
Analysis Batch: 58178

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-58093/3-A
Matrix: Solid
Analysis Batch: 58178

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	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-30984-A-1-B MS
Matrix: Solid
Analysis Batch: 58178

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	688	F1	252	895.0	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-30984-A-1-C MSD
Matrix: Solid
Analysis Batch: 58178

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	688	F1	252	902.8	F1	mg/Kg		85	90 - 110	1	20

Lab Sample ID: MB 880-58170/1-A
Matrix: Solid
Analysis Batch: 58209

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			07/21/23 08:16	1

Lab Sample ID: LCS 880-58170/2-A
Matrix: Solid
Analysis Batch: 58209

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.9		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-58170/3-A
Matrix: Solid
Analysis Batch: 58209

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	229.3		mg/Kg		92	90 - 110	1	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4964-1 MS
Matrix: Solid
Analysis Batch: 58209

Client Sample ID: O9 FS_4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	91.7		250	323.0		mg/Kg		93	90 - 110

Lab Sample ID: 890-4964-1 MSD
Matrix: Solid
Analysis Batch: 58209

Client Sample ID: O9 FS_4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	91.7		250	319.6		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 890-4964-11 MS
Matrix: Solid
Analysis Batch: 58209

Client Sample ID: I8 FS_4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6790		2500	9112		mg/Kg		93	90 - 110

Lab Sample ID: 890-4964-11 MSD
Matrix: Solid
Analysis Batch: 58209

Client Sample ID: I8 FS_4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6790		2500	9072		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC VOA

Analysis Batch: 58088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-2	N9FS_4'	Total/NA	Solid	8021B	58150
890-4964-3	M9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-4	L9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-5	K9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-6	K10 FS_4'	Total/NA	Solid	8021B	58150
890-4964-7	J9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-8	J10FS_4'	Total/NA	Solid	8021B	58150
890-4964-9	J11 FS_4'	Total/NA	Solid	8021B	58150
890-4964-10	E6 FS_4'	Total/NA	Solid	8021B	58150
890-4964-11	I8 FS_4'	Total/NA	Solid	8021B	58150
890-4964-12	I9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-16	H5 FS_4'	Total/NA	Solid	8021B	58150
890-4964-17	H8 FS_4'	Total/NA	Solid	8021B	58150
890-4964-18	H9 FS_7'	Total/NA	Solid	8021B	58150
890-4964-19	H10 FS_7'	Total/NA	Solid	8021B	58150
890-4964-20	G4 FS_4'	Total/NA	Solid	8021B	58150
MB 880-58106/5-A	Method Blank	Total/NA	Solid	8021B	58106
MB 880-58150/5-A	Method Blank	Total/NA	Solid	8021B	58150
LCS 880-58150/1-A	Lab Control Sample	Total/NA	Solid	8021B	58150
LCSD 880-58150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58150
890-4964-1 MS	O9 FS_4'	Total/NA	Solid	8021B	58150
890-4964-1 MSD	O9 FS_4'	Total/NA	Solid	8021B	58150

Prep Batch: 58106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58106/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-21	G5 FS_7'	Total/NA	Solid	5035	
890-4964-22	G6 FS_4'	Total/NA	Solid	5035	
890-4964-23	G7 FS_4'	Total/NA	Solid	5035	
890-4964-24	G8 FS_4'	Total/NA	Solid	5035	
890-4964-25	G9 FS_7'	Total/NA	Solid	5035	
890-4964-26	G10 FS_7'	Total/NA	Solid	5035	
890-4964-27	F5 FS_7'	Total/NA	Solid	5035	
890-4964-28	F6 FS_7'	Total/NA	Solid	5035	
890-4964-29	F7 FS_4'	Total/NA	Solid	5035	
890-4964-30	F4 FS_7'	Total/NA	Solid	5035	
MB 880-58149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4962-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4962-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 58150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	5035	
890-4964-2	N9FS_4'	Total/NA	Solid	5035	
890-4964-3	M9 FS_4'	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC VOA (Continued)

Prep Batch: 58150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-4	L9 FS_4'	Total/NA	Solid	5035	
890-4964-5	K9 FS_4'	Total/NA	Solid	5035	
890-4964-6	K10 FS_4'	Total/NA	Solid	5035	
890-4964-7	J9 FS_4'	Total/NA	Solid	5035	
890-4964-8	J10FS_4'	Total/NA	Solid	5035	
890-4964-9	J11 FS_4'	Total/NA	Solid	5035	
890-4964-10	E6 FS_4'	Total/NA	Solid	5035	
890-4964-11	I8 FS_4'	Total/NA	Solid	5035	
890-4964-12	I9 FS_4'	Total/NA	Solid	5035	
890-4964-16	H5 FS_4'	Total/NA	Solid	5035	
890-4964-17	H8 FS_4'	Total/NA	Solid	5035	
890-4964-18	H9 FS_7'	Total/NA	Solid	5035	
890-4964-19	H10 FS_7'	Total/NA	Solid	5035	
890-4964-20	G4 FS_4'	Total/NA	Solid	5035	
MB 880-58150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4964-1 MS	O9 FS_4'	Total/NA	Solid	5035	
890-4964-1 MSD	O9 FS_4'	Total/NA	Solid	5035	

Analysis Batch: 58254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-2	N9FS_4'	Total/NA	Solid	Total BTEX	
890-4964-3	M9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-4	L9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-5	K9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-6	K10 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-7	J9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-8	J10FS_4'	Total/NA	Solid	Total BTEX	
890-4964-9	J11 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-10	E6 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-11	I8 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-12	I9 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-13	I10 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-14	I11 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-15	H4 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-16	H5 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-17	H8 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-18	H9 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-19	H10 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-20	G4 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-21	G5 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-22	G6 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-23	G7 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-24	G8 FS_4'	Total/NA	Solid	Total BTEX	
890-4964-25	G9 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-26	G10 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-27	F5 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-28	F6 FS_7'	Total/NA	Solid	Total BTEX	
890-4964-29	F7 FS_4'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC VOA (Continued)

Analysis Batch: 58254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-30	F4 FS_7'	Total/NA	Solid	Total BTEX	

Analysis Batch: 58258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-21	G5 FS_7'	Total/NA	Solid	8021B	58149
890-4964-22	G6 FS_4'	Total/NA	Solid	8021B	58149
890-4964-23	G7 FS_4'	Total/NA	Solid	8021B	58149
890-4964-24	G8 FS_4'	Total/NA	Solid	8021B	58149
890-4964-25	G9 FS_7'	Total/NA	Solid	8021B	58149
890-4964-26	G10 FS_7'	Total/NA	Solid	8021B	58149
890-4964-27	F5 FS_7'	Total/NA	Solid	8021B	58149
890-4964-28	F6 FS_7'	Total/NA	Solid	8021B	58149
890-4964-29	F7 FS_4'	Total/NA	Solid	8021B	58149
890-4964-30	F4 FS_7'	Total/NA	Solid	8021B	58149
MB 880-58149/5-A	Method Blank	Total/NA	Solid	8021B	58149
LCS 880-58149/1-A	Lab Control Sample	Total/NA	Solid	8021B	58149
LCSD 880-58149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58149
890-4962-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	58149
890-4962-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58149

Prep Batch: 58284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-5	K9 FS_4'	Total/NA	Solid	5035	
890-4964-13	I10 FS_4'	Total/NA	Solid	5035	
890-4964-14	I11 FS_4'	Total/NA	Solid	5035	
890-4964-15	H4 FS_7'	Total/NA	Solid	5035	
MB 880-58284/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58284/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58284/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30699-A-2-G MS	Matrix Spike	Total/NA	Solid	5035	
880-30699-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-5	K9 FS_4'	Total/NA	Solid	8021B	58284
890-4964-13	I10 FS_4'	Total/NA	Solid	8021B	58284
890-4964-14	I11 FS_4'	Total/NA	Solid	8021B	58284
890-4964-15	H4 FS_7'	Total/NA	Solid	8021B	58284
MB 880-58284/5-A	Method Blank	Total/NA	Solid	8021B	58284
LCS 880-58284/1-A	Lab Control Sample	Total/NA	Solid	8021B	58284
LCSD 880-58284/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58284
880-30699-A-2-G MS	Matrix Spike	Total/NA	Solid	8021B	58284
880-30699-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58284

GC Semi VOA

Analysis Batch: 58186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-2	N9FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-3	M9 FS_4'	Total/NA	Solid	8015B NM	58234

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC Semi VOA (Continued)

Analysis Batch: 58186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-4	L9 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-5	K9 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-5	K9 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-6	K10 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-7	J9 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-8	J10FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-9	J11 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-10	E6 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-11	I8 FS_4'	Total/NA	Solid	8015B NM	58234
890-4964-12	I9 FS_4'	Total/NA	Solid	8015B NM	58234
MB 880-58234/1-A	Method Blank	Total/NA	Solid	8015B NM	58234
LCS 880-58234/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58234
LCSD 880-58234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58234
890-4962-A-17-D MS	Matrix Spike	Total/NA	Solid	8015B NM	58234
890-4962-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58234

Prep Batch: 58234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-2	N9FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-3	M9 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-4	L9 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-5	K9 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-6	K10 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-7	J9 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-8	J10FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-9	J11 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-10	E6 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-11	I8 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-12	I9 FS_4'	Total/NA	Solid	8015NM Prep	
MB 880-58234/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58234/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4962-A-17-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4962-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 58243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-13	I10 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-14	I11 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-15	H4 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-16	H5 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-17	H8 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-18	H9 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-19	H10 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-20	G4 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-21	G5 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-22	G6 FS_4'	Total/NA	Solid	8015NM Prep	
MB 880-58243/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58243/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58243/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC Semi VOA (Continued)

Prep Batch: 58243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-15 MS	H4 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-15 MSD	H4 FS_7'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-13	I10 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-13	I10 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-14	I11 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-15	H4 FS_7'	Total/NA	Solid	8015B NM	58243
890-4964-16	H5 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-17	H8 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-18	H9 FS_7'	Total/NA	Solid	8015B NM	58243
890-4964-19	H10 FS_7'	Total/NA	Solid	8015B NM	58243
890-4964-20	G4 FS_4'	Total/NA	Solid	8015B NM	58243
890-4964-21	G5 FS_7'	Total/NA	Solid	8015B NM	58243
890-4964-22	G6 FS_4'	Total/NA	Solid	8015B NM	58243
MB 880-58243/1-A	Method Blank	Total/NA	Solid	8015B NM	58243
LCS 880-58243/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58243
LCSD 880-58243/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58243
890-4964-15 MS	H4 FS_7'	Total/NA	Solid	8015B NM	58243
890-4964-15 MSD	H4 FS_7'	Total/NA	Solid	8015B NM	58243

Prep Batch: 58294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-23	G7 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-24	G8 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-25	G9 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-26	G10 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-27	F5 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-28	F6 FS_7'	Total/NA	Solid	8015NM Prep	
890-4964-29	F7 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-30	F4 FS_7'	Total/NA	Solid	8015NM Prep	
MB 880-58294/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58294/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4964-23 MS	G7 FS_4'	Total/NA	Solid	8015NM Prep	
890-4964-23 MSD	G7 FS_4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-2	N9FS_4'	Total/NA	Solid	8015 NM	
890-4964-3	M9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-4	L9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-5	K9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-6	K10 FS_4'	Total/NA	Solid	8015 NM	
890-4964-7	J9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-8	J10FS_4'	Total/NA	Solid	8015 NM	
890-4964-9	J11 FS_4'	Total/NA	Solid	8015 NM	
890-4964-10	E6 FS_4'	Total/NA	Solid	8015 NM	
890-4964-11	I8 FS_4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

GC Semi VOA (Continued)

Analysis Batch: 58392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-12	I9 FS_4'	Total/NA	Solid	8015 NM	
890-4964-13	I10 FS_4'	Total/NA	Solid	8015 NM	
890-4964-14	I11 FS_4'	Total/NA	Solid	8015 NM	
890-4964-15	H4 FS_7'	Total/NA	Solid	8015 NM	
890-4964-16	H5 FS_4'	Total/NA	Solid	8015 NM	
890-4964-17	H8 FS_4'	Total/NA	Solid	8015 NM	
890-4964-18	H9 FS_7'	Total/NA	Solid	8015 NM	
890-4964-19	H10 FS_7'	Total/NA	Solid	8015 NM	
890-4964-20	G4 FS_4'	Total/NA	Solid	8015 NM	
890-4964-21	G5 FS_7'	Total/NA	Solid	8015 NM	
890-4964-22	G6 FS_4'	Total/NA	Solid	8015 NM	
890-4964-23	G7 FS_4'	Total/NA	Solid	8015 NM	
890-4964-24	G8 FS_4'	Total/NA	Solid	8015 NM	
890-4964-25	G9 FS_7'	Total/NA	Solid	8015 NM	
890-4964-26	G10 FS_7'	Total/NA	Solid	8015 NM	
890-4964-27	F5 FS_7'	Total/NA	Solid	8015 NM	
890-4964-28	F6 FS_7'	Total/NA	Solid	8015 NM	
890-4964-29	F7 FS_4'	Total/NA	Solid	8015 NM	
890-4964-30	F4 FS_7'	Total/NA	Solid	8015 NM	

Analysis Batch: 58509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-23	G7 FS_4'	Total/NA	Solid	8015B NM	58294
890-4964-24	G8 FS_4'	Total/NA	Solid	8015B NM	58294
890-4964-25	G9 FS_7'	Total/NA	Solid	8015B NM	58294
890-4964-26	G10 FS_7'	Total/NA	Solid	8015B NM	58294
890-4964-27	F5 FS_7'	Total/NA	Solid	8015B NM	58294
890-4964-28	F6 FS_7'	Total/NA	Solid	8015B NM	58294
890-4964-29	F7 FS_4'	Total/NA	Solid	8015B NM	58294
890-4964-30	F4 FS_7'	Total/NA	Solid	8015B NM	58294
MB 880-58294/1-A	Method Blank	Total/NA	Solid	8015B NM	58294
LCS 880-58294/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58294
LCSD 880-58294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58294
890-4964-23 MS	G7 FS_4'	Total/NA	Solid	8015B NM	58294
890-4964-23 MSD	G7 FS_4'	Total/NA	Solid	8015B NM	58294

HPLC/IC

Leach Batch: 58093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-30	F4 FS_7'	Soluble	Solid	DI Leach	
MB 880-58093/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58093/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58093/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30984-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30984-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 58100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-21	G5 FS_7'	Soluble	Solid	DI Leach	
890-4964-22	G6 FS_4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

HPLC/IC (Continued)

Leach Batch: 58100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-23	G7 FS_4'	Soluble	Solid	DI Leach	
890-4964-24	G8 FS_4'	Soluble	Solid	DI Leach	
890-4964-25	G9 FS_7'	Soluble	Solid	DI Leach	
890-4964-26	G10 FS_7'	Soluble	Solid	DI Leach	
890-4964-27	F5 FS_7'	Soluble	Solid	DI Leach	
890-4964-28	F6 FS_7'	Soluble	Solid	DI Leach	
890-4964-29	F7 FS_4'	Soluble	Solid	DI Leach	
MB 880-58100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4894-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4894-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-21	G5 FS_7'	Soluble	Solid	300.0	58100
890-4964-22	G6 FS_4'	Soluble	Solid	300.0	58100
890-4964-23	G7 FS_4'	Soluble	Solid	300.0	58100
890-4964-24	G8 FS_4'	Soluble	Solid	300.0	58100
890-4964-25	G9 FS_7'	Soluble	Solid	300.0	58100
890-4964-26	G10 FS_7'	Soluble	Solid	300.0	58100
890-4964-27	F5 FS_7'	Soluble	Solid	300.0	58100
890-4964-28	F6 FS_7'	Soluble	Solid	300.0	58100
890-4964-29	F7 FS_4'	Soluble	Solid	300.0	58100
MB 880-58100/1-A	Method Blank	Soluble	Solid	300.0	58100
LCS 880-58100/2-A	Lab Control Sample	Soluble	Solid	300.0	58100
LCSD 880-58100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58100
890-4894-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	58100
890-4894-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58100

Leach Batch: 58170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Soluble	Solid	DI Leach	
890-4964-2	N9FS_4'	Soluble	Solid	DI Leach	
890-4964-3	M9 FS_4'	Soluble	Solid	DI Leach	
890-4964-4	L9 FS_4'	Soluble	Solid	DI Leach	
890-4964-5	K9 FS_4'	Soluble	Solid	DI Leach	
890-4964-6	K10 FS_4'	Soluble	Solid	DI Leach	
890-4964-7	J9 FS_4'	Soluble	Solid	DI Leach	
890-4964-8	J10FS_4'	Soluble	Solid	DI Leach	
890-4964-9	J11 FS_4'	Soluble	Solid	DI Leach	
890-4964-10	E6 FS_4'	Soluble	Solid	DI Leach	
890-4964-11	I8 FS_4'	Soluble	Solid	DI Leach	
890-4964-12	I9 FS_4'	Soluble	Solid	DI Leach	
890-4964-13	I10 FS_4'	Soluble	Solid	DI Leach	
890-4964-14	I11 FS_4'	Soluble	Solid	DI Leach	
890-4964-15	H4 FS_7'	Soluble	Solid	DI Leach	
890-4964-16	H5 FS_4'	Soluble	Solid	DI Leach	
890-4964-17	H8 FS_4'	Soluble	Solid	DI Leach	
890-4964-18	H9 FS_7'	Soluble	Solid	DI Leach	
890-4964-19	H10 FS_7'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

HPLC/IC (Continued)

Leach Batch: 58170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-20	G4 FS_4'	Soluble	Solid	DI Leach	
MB 880-58170/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58170/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58170/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4964-1 MS	O9 FS_4'	Soluble	Solid	DI Leach	
890-4964-1 MSD	O9 FS_4'	Soluble	Solid	DI Leach	
890-4964-11 MS	I8 FS_4'	Soluble	Solid	DI Leach	
890-4964-11 MSD	I8 FS_4'	Soluble	Solid	DI Leach	

Analysis Batch: 58178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-30	F4 FS_7'	Soluble	Solid	300.0	58093
MB 880-58093/1-A	Method Blank	Soluble	Solid	300.0	58093
LCS 880-58093/2-A	Lab Control Sample	Soluble	Solid	300.0	58093
LCSD 880-58093/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58093
880-30984-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	58093
880-30984-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58093

Analysis Batch: 58209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4964-1	O9 FS_4'	Soluble	Solid	300.0	58170
890-4964-2	N9FS_4'	Soluble	Solid	300.0	58170
890-4964-3	M9 FS_4'	Soluble	Solid	300.0	58170
890-4964-4	L9 FS_4'	Soluble	Solid	300.0	58170
890-4964-5	K9 FS_4'	Soluble	Solid	300.0	58170
890-4964-6	K10 FS_4'	Soluble	Solid	300.0	58170
890-4964-7	J9 FS_4'	Soluble	Solid	300.0	58170
890-4964-8	J10FS_4'	Soluble	Solid	300.0	58170
890-4964-9	J11 FS_4'	Soluble	Solid	300.0	58170
890-4964-10	E6 FS_4'	Soluble	Solid	300.0	58170
890-4964-11	I8 FS_4'	Soluble	Solid	300.0	58170
890-4964-12	I9 FS_4'	Soluble	Solid	300.0	58170
890-4964-13	I10 FS_4'	Soluble	Solid	300.0	58170
890-4964-14	I11 FS_4'	Soluble	Solid	300.0	58170
890-4964-15	H4 FS_7'	Soluble	Solid	300.0	58170
890-4964-16	H5 FS_4'	Soluble	Solid	300.0	58170
890-4964-17	H8 FS_4'	Soluble	Solid	300.0	58170
890-4964-18	H9 FS_7'	Soluble	Solid	300.0	58170
890-4964-19	H10 FS_7'	Soluble	Solid	300.0	58170
890-4964-20	G4 FS_4'	Soluble	Solid	300.0	58170
MB 880-58170/1-A	Method Blank	Soluble	Solid	300.0	58170
LCS 880-58170/2-A	Lab Control Sample	Soluble	Solid	300.0	58170
LCSD 880-58170/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58170
890-4964-1 MS	O9 FS_4'	Soluble	Solid	300.0	58170
890-4964-1 MSD	O9 FS_4'	Soluble	Solid	300.0	58170
890-4964-11 MS	I8 FS_4'	Soluble	Solid	300.0	58170
890-4964-11 MSD	I8 FS_4'	Soluble	Solid	300.0	58170

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: O9 FS_4'
Date Collected: 07/17/23 10:28
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-1
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			5.05 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 11:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 18:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 08:32	CH	EET MID

Client Sample ID: N9FS_4'
Date Collected: 07/17/23 10:20
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-2
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			4.98 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 11:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 19:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 08:47	CH	EET MID

Client Sample ID: M9 FS_4'
Date Collected: 07/17/23 10:22
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-3
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			4.96 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 11:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 20:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 08:53	CH	EET MID

Client Sample ID: L9 FS_4'
Date Collected: 07/17/23 10:25
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-4
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			5.02 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 12:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: L9 FS_4'
Date Collected: 07/17/23 10:25
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-4
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			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 20:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 08:58	CH	EET MID

Client Sample ID: K9 FS_4'
Date Collected: 07/17/23 10:34
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-5
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			5.01 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 12:22	SM	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	58284	07/23/23 09:31	AJ	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	58286	07/23/23 20:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	58186	07/22/23 10:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		10			58209	07/21/23 09:03	CH	EET MID

Client Sample ID: K10 FS_4'
Date Collected: 07/17/23 10:31
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-6
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			4.97 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 12:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 21:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 09:19	CH	EET MID

Client Sample ID: J9 FS_4'
Date Collected: 07/17/23 10:37
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-7
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			4.95 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 13:03	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: J9 FS_4'
Date Collected: 07/17/23 10:37
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 21:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 09:24	CH	EET MID

Client Sample ID: J10FS_4'
Date Collected: 07/17/23 10:41
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-8
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			4.96 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 13:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 21:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 09:29	CH	EET MID

Client Sample ID: J11 FS_4'
Date Collected: 07/17/23 10:43
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-9
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			4.99 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 13:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 22:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 09:34	CH	EET MID

Client Sample ID: E6 FS_4'
Date Collected: 07/17/23 11:51
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-10
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			5.01 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 14:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: E6 FS_4'
Date Collected: 07/17/23 11:51
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-10
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	8015NM Prep			10.09 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 22:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 09:39	CH	EET MID

Client Sample ID: I8 FS_4'
Date Collected: 07/17/23 10:45
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-11
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			5.05 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 15:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 22:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		10			58209	07/21/23 09:44	CH	EET MID

Client Sample ID: I9 FS_4'
Date Collected: 07/17/23 10:47
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-12
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			5.03 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 15:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/21/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58234	07/21/23 11:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58186	07/21/23 23:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		20			58209	07/21/23 10:00	CH	EET MID

Client Sample ID: I10 FS_4'
Date Collected: 07/17/23 10:59
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-13
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			4.95 g	5 mL	58284	07/23/23 09:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58286	07/23/23 19:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 12:16	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: I10 FS_4'
Date Collected: 07/17/23 10:59
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-13
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	8015NM Prep			10.07 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	58278	07/24/23 07:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:05	CH	EET MID

Client Sample ID: I11 FS_4'
Date Collected: 07/17/23 11:04
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-14
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			4.96 g	5 mL	58284	07/23/23 09:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58286	07/23/23 19:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 12:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:20	CH	EET MID

Client Sample ID: H4 FS_7'
Date Collected: 07/17/23 11:05
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-15
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			5.03 g	5 mL	58284	07/23/23 09:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58286	07/23/23 20:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 11:09	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:25	CH	EET MID

Client Sample ID: H5 FS_4'
Date Collected: 07/17/23 11:07
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-16
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	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 17:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/22/23 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 16:34	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: H5 FS_4'
Date Collected: 07/17/23 11:07
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		1			58209	07/21/23 10:30	CH	EET MID

Client Sample ID: H8 FS_4'
Date Collected: 07/17/23 11:08
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-17
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	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 17:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/22/23 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 16:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:35	CH	EET MID

Client Sample ID: H9 FS_7'
Date Collected: 07/17/23 11:11
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-18
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	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 18:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/22/23 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 17:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:41	CH	EET MID

Client Sample ID: H10 FS_7'
Date Collected: 07/17/23 11:15
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-19
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			4.96 g	5 mL	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 18:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/22/23 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:46	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G4 FS_4'
Date Collected: 07/17/23 11:18
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-20
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	58150	07/20/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58088	07/21/23 18:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/22/23 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/23/23 18:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58170	07/20/23 15:48	KS	EET MID
Soluble	Analysis	300.0		5			58209	07/21/23 10:51	CH	EET MID

Client Sample ID: G5 FS_7'
Date Collected: 07/17/23 11:21
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-21
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 11:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/24/23 06:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		5			58157	07/21/23 03:52	CH	EET MID

Client Sample ID: G6 FS_4'
Date Collected: 07/17/23 11:24
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-22
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 12:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/24/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58243	07/21/23 14:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58278	07/24/23 07:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			58157	07/21/23 03:58	CH	EET MID

Client Sample ID: G7 FS_4'
Date Collected: 07/17/23 11:27
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-23
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 12:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G7 FS_4'
Date Collected: 07/17/23 11:27
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-23
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			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 10:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			58157	07/21/23 04:13	CH	EET MID

Client Sample ID: G8 FS_4'
Date Collected: 07/17/23 11:31
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-24
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 12:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		5			58157	07/21/23 04:18	CH	EET MID

Client Sample ID: G9 FS_7'
Date Collected: 07/17/23 11:34
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-25
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			4.96 g	5 mL	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 13:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 15:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		5			58157	07/21/23 04:23	CH	EET MID

Client Sample ID: G10 FS_7'
Date Collected: 07/17/23 11:37
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-26
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 13:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 15:33	SM	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: G10 FS_7'
Date Collected: 07/17/23 11:37
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			58157	07/21/23 04:28	CH	EET MID

Client Sample ID: F5 FS_7'
Date Collected: 07/17/23 11:41
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-27
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 14:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			58157	07/21/23 04:33	CH	EET MID

Client Sample ID: F6 FS_7'
Date Collected: 07/17/23 11:43
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-28
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 15:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 16:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		5			58157	07/21/23 04:39	CH	EET MID

Client Sample ID: F7 FS_4'
Date Collected: 07/17/23 11:45
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-29
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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 15:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 16:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			58157	07/21/23 04:44	CH	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Client Sample ID: F4 FS_7'

Date Collected: 07/17/23 11:47
Date Received: 07/19/23 08:40

Lab Sample ID: 890-4964-30

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	58149	07/20/23 13:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/22/23 15:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58254	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58392	07/27/23 08:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58294	07/24/23 08:30	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58509	07/26/23 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58093	07/20/23 15:00	KS	EET MID
Soluble	Analysis	300.0		10			58178	07/21/23 03:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

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: Terracon Consulting Eng & Scientists
Project/Site: Fighting Okra 7H

Job ID: 890-4964-1
SDG: KH237008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4964-1	O9 FS_4'	Solid	07/17/23 10:28	07/19/23 08:40	4
890-4964-2	N9FS_4'	Solid	07/17/23 10:20	07/19/23 08:40	4
890-4964-3	M9 FS_4'	Solid	07/17/23 10:22	07/19/23 08:40	4
890-4964-4	L9 FS_4'	Solid	07/17/23 10:25	07/19/23 08:40	4
890-4964-5	K9 FS_4'	Solid	07/17/23 10:34	07/19/23 08:40	4
890-4964-6	K10 FS_4'	Solid	07/17/23 10:31	07/19/23 08:40	4
890-4964-7	J9 FS_4'	Solid	07/17/23 10:37	07/19/23 08:40	4
890-4964-8	J10FS_4'	Solid	07/17/23 10:41	07/19/23 08:40	4
890-4964-9	J11 FS_4'	Solid	07/17/23 10:43	07/19/23 08:40	4
890-4964-10	E6 FS_4'	Solid	07/17/23 11:51	07/19/23 08:40	7
890-4964-11	I8 FS_4'	Solid	07/17/23 10:45	07/19/23 08:40	4
890-4964-12	I9 FS_4'	Solid	07/17/23 10:47	07/19/23 08:40	4
890-4964-13	I10 FS_4'	Solid	07/17/23 10:59	07/19/23 08:40	4
890-4964-14	I11 FS_4'	Solid	07/17/23 11:04	07/19/23 08:40	4
890-4964-15	H4 FS_7'	Solid	07/17/23 11:05	07/19/23 08:40	7
890-4964-16	H5 FS_4'	Solid	07/17/23 11:07	07/19/23 08:40	4
890-4964-17	H8 FS_4'	Solid	07/17/23 11:08	07/19/23 08:40	4
890-4964-18	H9 FS_7'	Solid	07/17/23 11:11	07/19/23 08:40	7
890-4964-19	H10 FS_7'	Solid	07/17/23 11:15	07/19/23 08:40	7
890-4964-20	G4 FS_4'	Solid	07/17/23 11:18	07/19/23 08:40	4
890-4964-21	G5 FS_7'	Solid	07/17/23 11:21	07/19/23 08:40	7
890-4964-22	G6 FS_4'	Solid	07/17/23 11:24	07/19/23 08:40	4
890-4964-23	G7 FS_4'	Solid	07/17/23 11:27	07/19/23 08:40	4
890-4964-24	G8 FS_4'	Solid	07/17/23 11:31	07/19/23 08:40	4
890-4964-25	G9 FS_7'	Solid	07/17/23 11:34	07/19/23 08:40	7
890-4964-26	G10 FS_7'	Solid	07/17/23 11:37	07/19/23 08:40	7
890-4964-27	F5 FS_7'	Solid	07/17/23 11:41	07/19/23 08:40	7
890-4964-28	F6 FS_7'	Solid	07/17/23 11:43	07/19/23 08:40	7
890-4964-29	F7 FS_4'	Solid	07/17/23 11:45	07/19/23 08:40	4
890-4964-30	F4 FS_7'	Solid	07/17/23 11:47	07/19/23 08:40	7

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon.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:	Fighting Okra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	2 day
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
O9 FS	Soil	7-17-23	10:28	4'	Comp	1		✓	✓	✓
N9 FS	Soil	7-17-23	10:20	4'	Comp	1		✓	✓	✓
M9 FS	Soil	7-17-23	10:22	4'	Comp	1		✓	✓	✓
L9 FS	Soil	7-17-23	10:25	4'	Comp	1		✓	✓	✓
K9 FS	Soil	7-17-23	10:34	4'	Comp	1		✓	✓	✓
K10 FS	Soil	7-17-23	10:31	4'	Comp	1		✓	✓	✓
J9 FS	Soil	7-17-23	10:37	4'	Comp	1		✓	✓	✓
J10 FS	Soil	7-17-23	10:41	4'	Comp	1		✓	✓	✓
J11 FS	Soil	7-17-23	10:43	4'	Comp	1		✓	✓	✓
E6 FS	Soil	7-17-23	11:51	7'	Comp	1		✓	✓	✓

890-4964 Chain of Custody

Preservative Codes

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

Sample Comments

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 BJ Mueller	Cole Camp	7.19.23 840	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
8/23/2023 (Rev. 1)
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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon.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:	Fighting OKra 7H	Turn Around	
Project Number:	KH2377008	☐ Routine ☑ Rush	
Project Location:	Eddy County	Due Date:	2 day
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
I8 FS	Soil	7-17-23	10:45	4	Comp	1		✓	✓	✓	
I9 FS	Soil	7-17-23	10:47	4	Comp	1		✓	✓	✓	
I10 FS	Soil	7-17-23	10:59	4	Comp	1		✓	✓	✓	
I11 FS	Soil	7-17-23	11:04	4	Comp	1		✓	✓	✓	
H4 FS	Soil	7-17-23	11:05	7	Comp	1		✓	✓	✓	
H5 FS	Soil	7-17-23	11:07	4	Comp	1		✓	✓	✓	
H8 FS	Soil	7-17-23	11:08	4	Comp	1		✓	✓	✓	
H9 FS	Soil	7-17-23	11:11	7	Comp	1		✓	✓	✓	
H10 FS	Soil	7-17-23	11:15	7	Comp	1		✓	✓	✓	
G4 FS	Soil	7-17-23	11:18	4	Comp	1		✓	✓	✓	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 B Mille	Clo Amp	7.19.23 840	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
8/23/2023 (Rev. 1)
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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	806-300-0140	Email:	Gus.Sanchez@Terracon

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:	Fighting Okra 7H	Turn Around	☐ Routine ☑ Rush
Project Number:	KH237008	Due Date:	2 day
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Samples 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:		Corrected Temperature:	
Temp Blank:	Yes No	Wet Ice:	Yes No

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Sample Comments
G5 FS	Soil	7-17-23	11:21	7	Comp	1		✓	✓	✓	
G6 FS	Soil	7-17-23	11:24	4	Comp	1		✓	✓	✓	
G7 FS	Soil	7-17-23	11:27	4	Comp	1		✓	✓	✓	
G8 FS	Soil	7-17-23	11:31	4	Comp	1		✓	✓	✓	
G9 FS	Soil	7-17-23	11:34	7	Comp	1		✓	✓	✓	
G10 FS	Soil	7-17-23	11:37	7	Comp	1		✓	✓	✓	
F5 FS	Soil	7-17-23	11:41	7	Comp	1		✓	✓	✓	
F6 FS	Soil	7-17-23	11:43	7	Comp	1		✓	✓	✓	
F7 FS	Soil	7-17-23	11:45	4	Comp	1		✓	✓	✓	
E5 FS	Soil	7-17-23	11:47	7	Comp	1		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	B Mallet	Ace Cup	7-19-23 848			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4964-1
SDG Number: KH237008

Login Number: 4964
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: Terracon Consulting Eng & Scientists

Job Number: 890-4964-1
SDG Number: KH237008

Login Number: 4964
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/20/23 12:42 PM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 8/25/2023 12:05:31 PM

JOB DESCRIPTION

FIGHTING OKRA
SDG NUMBER Lea County

JOB NUMBER

890-5143-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

my EOL

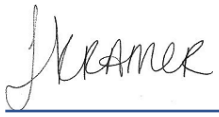
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/25/2023 12:05:31 PM

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

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Laboratory Job ID: 890-5143-1
SDG: Lea County

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Job ID: 890-5143-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5143-1

Receipt
The sample was received on 8/22/2023 4:03 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: J8 FS (890-5143-1).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-61016/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5143-A-1-C MS) and (890-5143-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-61016 and analytical batch 880-60964 was outside control limits. Sample non-homogeneity is suspected.

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 880-61008 and analytical batch 880-60954 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61008/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-32232-A-1-F MS) and (880-32232-A-1-G 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 sample was outside control limits: J8 FS (890-5143-1). 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: (CCV 880-60954/31) and (CCV 880-60954/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-61008 and analytical batch 880-60954 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-61008 and analytical batch 880-60954 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.

HPLC/IC
Method 300_ORGFM_28D: The continuing calibration blank (CCB) for analytical batch 880-61011 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Job ID: 890-5143-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Client Sample ID: J8 FS

Date Collected: 08/22/23 01:30
Date Received: 08/22/23 16:03
Sample Depth: 8

Lab Sample ID: 890-5143-1

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		08/24/23 13:43	08/25/23 00:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/23 13:43	08/25/23 00:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/23 13:43	08/25/23 00:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/24/23 13:43	08/25/23 00:15	1
o-Xylene	<0.00199	U F2	0.00199		mg/Kg		08/24/23 13:43	08/25/23 00:15	1
Xylenes, Total	<0.00398	U F2	0.00398		mg/Kg		08/24/23 13:43	08/25/23 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/24/23 13:43*	*08/25/23 00:15*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/24/23 13:43*	*08/25/23 00:15*	*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			08/25/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**993**		49.9		mg/Kg			08/25/23 11:47	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		08/24/23 11:58	08/24/23 23:42	1
Diesel Range Organics (Over C10-C28)	**993**		49.9		mg/Kg		08/24/23 11:58	08/24/23 23:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/23 11:58	08/24/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*08/24/23 11:58*	*08/24/23 23:42*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/24/23 11:58*	*08/24/23 23:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1680**		25.0		mg/Kg			08/24/23 16:14	5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5143-1	J8 FS	90	105
890-5143-1 MS	J8 FS	137 S1+	101
890-5143-1 MSD	J8 FS	144 S1+	97
LCS 880-61016/1-A	Lab Control Sample	132 S1+	105
LCSD 880-61016/2-A	Lab Control Sample Dup	124	116
MB 880-60967/5-A	Method Blank	74	82
MB 880-61016/5-A	Method Blank	80	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32232-A-1-F MS	Matrix Spike	131 S1+	95
880-32232-A-1-G MSD	Matrix Spike Duplicate	141 S1+	106
890-5143-1	J8 FS	134 S1+	105
LCS 880-61008/2-A	Lab Control Sample	111	106
LCSD 880-61008/3-A	Lab Control Sample Dup	133 S1+	112
MB 880-61008/1-A	Method Blank	200 S1+	162 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60967/5-A
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:04	08/24/23 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:04	08/24/23 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:04	08/24/23 12:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/23 09:04	08/24/23 12:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/23 09:04	08/24/23 12:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/23 09:04	08/24/23 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*08/24/23 09:04*	*08/24/23 12:37*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/24/23 09:04*	*08/24/23 12:37*	*1*

Lab Sample ID: MB 880-61016/5-A
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/23 13:43	08/24/23 23:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/23 13:43	08/24/23 23:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/23 13:43	08/24/23 23:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/23 13:43	08/24/23 23:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/23 13:43	08/24/23 23:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/23 13:43	08/24/23 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*08/24/23 13:43*	*08/24/23 23:53*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/24/23 13:43*	*08/24/23 23:53*	*1*

Lab Sample ID: LCS 880-61016/1-A
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1009		mg/Kg		101	70 - 130
Toluene	0.100	0.1152		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1186		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2401		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1297		mg/Kg		130	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-61016/2-A
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09661		mg/Kg		97	70 - 130	4	35

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-61016/2-A
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1117		mg/Kg		112	70 - 130	3	35
Ethylbenzene			0.100	0.1149		mg/Kg		115	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2604		mg/Kg		130	70 - 130	8	35
o-Xylene			0.100	0.1290		mg/Kg		129	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 890-5143-1 MS
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: J8 FS
Prep Type: Total/NA
Prep Batch: 61016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08125		mg/Kg		82	70 - 130
Toluene	<0.00199	U	0.0996	0.08436		mg/Kg		85	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07350		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1544		mg/Kg		77	70 - 130
o-Xylene	<0.00199	U F2	0.0996	0.08179		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-5143-1 MSD
Matrix: Solid
Analysis Batch: 60964

Client Sample ID: J8 FS
Prep Type: Total/NA
Prep Batch: 61016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09329		mg/Kg		93	70 - 130	14	35
Toluene	<0.00199	U	0.101	0.1032		mg/Kg		102	70 - 130	20	35
Ethylbenzene	<0.00199	U	0.101	0.09860		mg/Kg		97	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2125		mg/Kg		105	70 - 130	32	35
o-Xylene	<0.00199	U F2	0.101	0.1306	F2	mg/Kg		129	70 - 130	46	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-61008/1-A
Matrix: Solid
Analysis Batch: 60954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61008

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		08/24/23 11:58	08/24/23 19:47	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

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

Lab Sample ID: MB 880-61008/1-A
Matrix: Solid
Analysis Batch: 60954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 11:58	08/24/23 19:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 11:58	08/24/23 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*200*	*S1+*	*70 - 130*	*08/24/23 11:58*	*08/24/23 19:47*	*1*
o-Terphenyl	*162*	*S1+*	*70 - 130*	*08/24/23 11:58*	*08/24/23 19:47*	*1*

Lab Sample ID: LCS 880-61008/2-A
Matrix: Solid
Analysis Batch: 60954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.3		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	837.0		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: LCSD 880-61008/3-A
Matrix: Solid
Analysis Batch: 60954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1013		mg/Kg		101	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	1023		mg/Kg		102	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*133*	*S1+*	*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 880-32232-A-1-F MS
Matrix: Solid
Analysis Batch: 60954

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 61008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	996	994.3		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.5	U F1	996	1233		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*95*		*70 - 130*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

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

Lab Sample ID: 880-32232-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60954 — **Prep Batch: 61008**

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	<50.5	U	996	1133		mg/Kg		110	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.5	U F1	996	1364	F1	mg/Kg		135	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*141*	*S1+*	*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60948/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/24/23 12:38	1

Lab Sample ID: LCS 880-60948/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-60948/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-32461-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3870		4950	8675		mg/Kg		97	90 - 110

Lab Sample ID: 880-32461-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3870		4950	8677		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

GC VOA

Analysis Batch: 60964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	8021B	61016
MB 880-60967/5-A	Method Blank	Total/NA	Solid	8021B	60967
MB 880-61016/5-A	Method Blank	Total/NA	Solid	8021B	61016
LCS 880-61016/1-A	Lab Control Sample	Total/NA	Solid	8021B	61016
LCSD 880-61016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61016
890-5143-1 MS	J8 FS	Total/NA	Solid	8021B	61016
890-5143-1 MSD	J8 FS	Total/NA	Solid	8021B	61016

Prep Batch: 60967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60967/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 61016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	5035	
MB 880-61016/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5143-1 MS	J8 FS	Total/NA	Solid	5035	
890-5143-1 MSD	J8 FS	Total/NA	Solid	5035	

Analysis Batch: 61091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 60954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	8015B NM	61008
MB 880-61008/1-A	Method Blank	Total/NA	Solid	8015B NM	61008
LCS 880-61008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61008
LCSD 880-61008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61008
880-32232-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	61008
880-32232-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61008

Prep Batch: 61008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	8015NM Prep	
MB 880-61008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32232-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32232-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

HPLC/IC

Leach Batch: 60948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Soluble	Solid	DI Leach	
MB 880-60948/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60948/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60948/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32461-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-32461-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 61011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5143-1	J8 FS	Soluble	Solid	300.0	60948
MB 880-60948/1-A	Method Blank	Soluble	Solid	300.0	60948
LCS 880-60948/2-A	Lab Control Sample	Soluble	Solid	300.0	60948
LCSD 880-60948/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60948
880-32461-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	60948
880-32461-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	60948

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Client Sample ID: J8 FS
Date Collected: 08/22/23 01:30
Date Received: 08/22/23 16:03

Lab Sample ID: 890-5143-1
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			5.02 g	5 mL	61016	08/24/23 13:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60964	08/25/23 00:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61091	08/25/23 09:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			61138	08/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61008	08/24/23 11:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60954	08/24/23 23:42	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60948	08/24/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61011	08/24/23 16:14	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5143-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5143-1	J8 FS	Solid	08/22/23 01:30	08/22/23 16:03	8

Released to Imaging: 3/1/2024 11:35:47 AM
Received by OCD: 10/5/2023 9:03:44 AM

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W Pierce	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:		Email:	Gus.Sanchez@Terracon; Travis.Casey@Terracon

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:	Fighting Okra	Turn Around	☐ Routine ☑ Rush
Project Number:	KH2370-35	Due Date:	48 hour
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Gus Sanchez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM001
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.2
Total Containers:		Corrected Temperature:	6.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA 300)	BTEX (8021B)	TPH (8015)
J8 FS	Soil	8-22-23	1:30	8'	Comp	1		✓	✓	✓

890-5143 Chain of Custody

Preservative Codes

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

Sample Comments

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			8.22.23 1303			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5143-1
SDG Number: Lea County

Login Number: 5143
List Number: 1
Creator: Lopez, Abraham

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: Terracon Consulting Eng & Scientists

Job Number: 890-5143-1
SDG Number: Lea County

Login Number: 5143
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/24/23 10:58 AM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

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JOB DESCRIPTION

FIGHTING OKRA
SDG NUMBER KH237032

JOB NUMBER

890-5290-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 3/1/2024 11:33:47 AM

my EOL

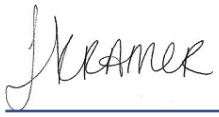
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Laboratory Job ID: 890-5290-1
SDG: KH237032

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Job ID: 890-5290-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5290-1

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

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

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

Receipt
The sample was received on 9/18/2023 2:56 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: NSW01.2 [C,D1,E1] (890-5290-1).

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-62862/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-62862 recovered below the lower control limits. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-62862/31).

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

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Client Sample ID: NSW01.2 [C,D1,E1]

Date Collected: 09/18/23 11:20
Date Received: 09/18/23 14:56
Sample Depth: 0 - 4

Lab Sample ID: 890-5290-1

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		09/20/23 08:43	09/20/23 16:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 16:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 16:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 08:43	09/20/23 16:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 16:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 08:43	09/20/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/20/23 08:43*	*09/20/23 16:42*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/20/23 08:43*	*09/20/23 16:42*	*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			09/20/23 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/21/23 03:31	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	<50.3	U	50.3		mg/Kg		09/20/23 12:31	09/21/23 03:31	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 12:31	09/21/23 03:31	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 12:31	09/21/23 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/20/23 12:31*	*09/21/23 03:31*	*1*
o-Terphenyl	*127*		*70 - 130*	*09/20/23 12:31*	*09/21/23 03:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.8**		4.98		mg/Kg			09/20/23 13:57	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-33432-A-1-A MS	Matrix Spike	77	90
880-33432-A-1-B MSD	Matrix Spike Duplicate	116	120
890-5290-1	NSW01.2 [C,D1,E1]	93	83
LCS 880-62869/1-A	Lab Control Sample	106	111
LCSD 880-62869/2-A	Lab Control Sample Dup	108	114
MB 880-62869/5-A	Method Blank	73	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5290-1	NSW01.2 [C,D1,E1]	130	127
890-5291-A-1-F MS	Matrix Spike	114	109
890-5291-A-1-G MSD	Matrix Spike Duplicate	115	111
LCS 880-62912/2-A	Lab Control Sample	74	73
LCSD 880-62912/3-A	Lab Control Sample Dup	95	92
MB 880-62912/1-A	Method Blank	107	123

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62869/5-A
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 08:43	09/20/23 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*09/20/23 08:43*	*09/20/23 11:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/20/23 08:43*	*09/20/23 11:12*	*1*

Lab Sample ID: LCS 880-62869/1-A
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1148		mg/Kg		115	70 - 130		
Toluene			0.100	0.1154		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1126		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene			0.200	0.2373		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130		

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

Lab Sample ID: LCSD 880-62869/2-A
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62869

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1101		mg/Kg		110	70 - 130	4	35
Toluene			0.100	0.1081		mg/Kg		108	70 - 130	7	35
Ethylbenzene			0.100	0.1053		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2251		mg/Kg		113	70 - 130	5	35
o-Xylene			0.100	0.1100		mg/Kg		110	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-33432-A-1-A MS
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.00937	F1	0.0998	0.07571	F1	mg/Kg		66	70 - 130		
Toluene	0.261	F1	0.0998	0.08023	F1	mg/Kg		-181	70 - 130		

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

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

Lab Sample ID: 880-33432-A-1-A MS
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0127	F1	0.0998	0.06870	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	0.0320	F1	0.200	0.1270	F1	mg/Kg		48	70 - 130
o-Xylene	0.0238	F1	0.0998	0.06207	F1	mg/Kg		38	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-33432-A-1-B MSD
Matrix: Solid
Analysis Batch: 62867

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00937	F1	0.0996	0.09181		mg/Kg		83	70 - 130	19	35
Toluene	0.261	F1	0.0996	0.08616	F1	mg/Kg		-175	70 - 130	7	35
Ethylbenzene	0.0127	F1	0.0996	0.08399		mg/Kg		72	70 - 130	20	35
m-Xylene & p-Xylene	0.0320	F1	0.199	0.1765		mg/Kg		73	70 - 130	33	35
o-Xylene	0.0238	F1	0.0996	0.08696	F1	mg/Kg		63	70 - 130	33	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

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

Lab Sample ID: MB 880-62912/1-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62912

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		09/20/23 12:31	09/20/23 22:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 12:31	09/20/23 22:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 12:31	09/20/23 22:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/20/23 12:31*	*09/20/23 22:43*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/20/23 12:31*	*09/20/23 22:43*	*1*

Lab Sample ID: LCS 880-62912/2-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	914.8		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.0		mg/Kg		92	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

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

Lab Sample ID: LCS 880-62912/2-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62912

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: LCSD 880-62912/3-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	847.8		mg/Kg		85	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	900.7		mg/Kg		90	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-5291-A-1-F MS
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	778.6		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	882.5		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-5291-A-1-G MSD
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62912

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	<50.3	U	1010	758.9		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	898.4		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62916/1-A
Matrix: Solid
Analysis Batch: 62917

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/20/23 13:37	1

Lab Sample ID: LCS 880-62916/2-A
Matrix: Solid
Analysis Batch: 62917

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-62916/3-A
Matrix: Solid
Analysis Batch: 62917

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	243.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-5290-1 MS
Matrix: Solid
Analysis Batch: 62917

Client Sample ID: NSW01.2 [C,D1,E1]
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	78.8		249	332.6		mg/Kg		102	90 - 110		

Lab Sample ID: 890-5290-1 MSD
Matrix: Solid
Analysis Batch: 62917

Client Sample ID: NSW01.2 [C,D1,E1]
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.8		249	332.0		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

GC VOA

Analysis Batch: 62867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	8021B	62869
MB 880-62869/5-A	Method Blank	Total/NA	Solid	8021B	62869
LCS 880-62869/1-A	Lab Control Sample	Total/NA	Solid	8021B	62869
LCSD 880-62869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62869
880-33432-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62869
880-33432-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62869

Prep Batch: 62869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	5035	
MB 880-62869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33432-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-33432-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 62862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	8015B NM	62912
MB 880-62912/1-A	Method Blank	Total/NA	Solid	8015B NM	62912
LCS 880-62912/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62912
LCSD 880-62912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62912
890-5291-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	62912
890-5291-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62912

Prep Batch: 62912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	8015NM Prep	
MB 880-62912/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62912/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5291-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5291-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Soluble	Solid	DI Leach	
MB 880-62916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62916/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

HPLC/IC (Continued)

Leach Batch: 62916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1 MS	NSW01.2 [C,D1,E1]	Soluble	Solid	DI Leach	
890-5290-1 MSD	NSW01.2 [C,D1,E1]	Soluble	Solid	DI Leach	

Analysis Batch: 62917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5290-1	NSW01.2 [C,D1,E1]	Soluble	Solid	300.0	62916
MB 880-62916/1-A	Method Blank	Soluble	Solid	300.0	62916
LCS 880-62916/2-A	Lab Control Sample	Soluble	Solid	300.0	62916
LCSD 880-62916/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62916
890-5290-1 MS	NSW01.2 [C,D1,E1]	Soluble	Solid	300.0	62916
890-5290-1 MSD	NSW01.2 [C,D1,E1]	Soluble	Solid	300.0	62916

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Client Sample ID: NSW01.2 [C,D1,E1]
Date Collected: 09/18/23 11:20
Date Received: 09/18/23 14:56

Lab Sample ID: 890-5290-1
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			5.01 g	5 mL	62869	09/20/23 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62947	09/20/23 16:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			62996	09/21/23 03:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62912	09/20/23 12:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/21/23 03:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62916	09/20/23 13:21	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62917	09/20/23 13:57	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

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: Terracon Consulting Eng & Scientists
Project/Site: FIGHTING OKRA

Job ID: 890-5290-1
SDG: KH237032

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5290-1	NSW01.2 [C,D1,E1]	Solid	09/18/23 11:20	09/18/23 14:56	0 - 4

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eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Joseph Guesnier	Bill to: (if different)	Dale Woodall
Company Name:	Terracon	Company Name:	Devon
Address:	4518 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.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:	Fighting Okra	Turn Around	
Project Number:	KH237032	☐ Routine ☑ Rush	
Project Location:	Lea County	Due Date:	48 hour
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#7
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.6
Total Containers:		Corrected Temperature:	2.4

ANALYSIS REQUEST

Parameters: Chloride (EPA 300); BTEX (8021 B); TPH (8015)

890-5290 Chain of Custody

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)	Sample Comments
~~NSW01~~		~~9-18-23~~		0-4	~~Comp~~	1	~~✓~~	~~✓~~	~~✓~~	
~~NSW01.2 (B1, C1, D1)~~										
NSW01.2 (C1, D1, E1)		9-18-23	11:20	0-4	Comp	1	✓	✓	✓	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9-18 14:50	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 10/5/2023 9:03:44 AM
Released to Imaging: 3/1/2024 11:35:47 AM
9/21/2023

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5290-1
SDG Number: KH237032

Login Number: 5290
List Number: 1
Creator: Lopez, Abraham

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: Terracon Consulting Eng & Scientists

Job Number: 890-5290-1
SDG Number: KH237032

Login Number: 5290
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 09/20/23 11:22 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	

APPENDIX E – INITIAL C-141 AND FINAL C-141

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	nAPP2318663772
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone
Contact email Dale.Woodall@dvn.com	Incident # *(assigned by OCD)*
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.049789 Longitude -103.5119685
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Fighting Okra 18 19 Federal 7H	Site Type Oil
Date Release Discovered 7/5/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
C	18	26S	34E	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) 20 BBLS	Volume Recovered (bbls) 15 BBLS
■ Produced Water	Volume Released (bbls) 59 BBLS	Volume Recovered (bbls) 50 BBLS
	Is the concentration of total dissolved solids (TDS) 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 Flowline from wellhead developed leak

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2318663772
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? Spill is over 25 BBLS

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice given to OCD on 7/5/2023 by Dale Woodall.

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: Kendra Ruiz Title: EHS Associate

Signature: Kendra Ruiz Date: 7/20/2023

email: Kendra.Ruiz@dvn.com Telephone: 575-748-0167

OCD Only

Received by: Shelly Wells Date: 7/21/2023

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
3857.766	1.000
Cubic Feet of Soil Impacted	321.481
Barrels of Soil Impacted	57.30
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	8.60
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	8.60
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
3857.766	0.700
Standing fluid	40.113
Total fluids spilled	**48.709**

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
3167.743	1.000
Cubic Feet of Soil Impacted	263.979
Barrels of Soil Impacted	47.06
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	7.06
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	7.06
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
3167.743	0.500
Standing fluid	23.528
Total fluids spilled	**30.586**

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

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 242800
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/21/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2318663772
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?	>55 (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.

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2318663772
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 10/5/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2318663772
District RP	
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Application ID	

Remediation Plan

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

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

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

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 10/5/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2318663772
District RP	
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Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 10/5/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

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: Nelson Velez Date: 03/01/2024

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Durango Midstream LLC, as reflected in our proposal (PKH227021).

Additional Scope Limitations

The development of this Amended RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Durango Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Durango Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Durango Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Durango Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Durango Midstream LLC and all relying parties unless otherwise agreed in writing.

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 272723

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 272723
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/1/2024