

SITE INFORMATION

Report Type: Closure Report

General Site Information:

Site:	Windward Federal 002H					
Company:	COG Operating LLC					
Section, Township and Range	Unit D	Sec. 30	T 24S	R 32E		
County:	Lea County					
GPS:	32.195085			-103.719442		
Surface Owner:	Federal					
Mineral Owner:	Federal					

Release Data:

Date Released:	8/8/2020
Type Release:	Produced Water
Source of Contamination:	Flowline
Fluid Released:	10 bbl water
Fluids Recovered:	0 bbls water

Official Communication:

Name:	Ike Tavaréz		Clair Gonzales
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center		901 West Wall Street
	600 W. Illinois Ave.		Suite 100
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 682-4559
Fax:	(432) 684-7137		
Email:	itavarez@concho.com		Clair.Gonzales@TetraTech.com

Site Characterization

Depth to Groundwater:	289.69' Below Surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg

**TETRA TECH**

January 15, 2021

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

Re: Closure Report for the COG Operating, LLC, Windward Federal #2H Battery, Unit D, Section 30, Township 24 South, Range 32 East, Lea County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG), to assess a release that occurred at the Windward Federal Com #2H, Unit D, Section 30, Township 24 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are 32.195085°, -103.719442°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on August 8, 2020, and released approximately 10 barrels of produced water due to a damaged line. A vacuum truck was dispatched to remove all freestanding fluids but was unable to recover any of the produced water. The release occurred onto the pasture impacting areas measuring 95' x 25'. The initial C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site, and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. Additionally, the site is located in a low karst potential area.

No water wells were listed within Section 30 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Lea County, or the USGS National Water Information Database. The nearest well is listed in Section 33 on the USGS Water Information Database, approximately 3.18 miles Northwest of the site, and has a reported depth to groundwater of 289.69' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

901 West Wall St, Suite 100, Midland, TX 79701

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com

**TETRA TECH**

Depth to Water Determination

On August 3, 2020, Scarborough Drilling, Inc was onsite to drill a groundwater determination borehole to 55' below ground surface and within a ½ mile radius of the location. The borehole was left open for 72 hours and was checked for the presence of groundwater. No water was detected at 55' below surface. The coordinates for the groundwater determination bore are 32.195562 -103.721798. The driller log is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for the top 4.0' of soil for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for the top 4.0' of soil for chlorides is 600 mg/kg. Beyond the top 4.0' of soil, the proposed RRALs for TPH is 2,500 mg/kg (GRO + DRO + MRO) and for chlorides is 10,000 mg/kg.

Soil Assessment and Analytical Results

Initial Assessment

On August 12, 2020, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of five (5) auger holes (AH-1 through AH-5) were installed in the release footprint to total depths of 0-4.5' below surface. Deeper samples could not be collected due to a dense formation in the area. Additionally, four (4) horizontal delineation samples were collected (Horizontal-1 through Horizontal-4). Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples collected showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits, with the exception of Horizontal-3, which showed a benzene concentration below RRAL at 0.00225 mg/kg. Additionally, all of the horizontal delineation samples showed chloride concentrations below the RRAL, with concentrations ranging from 12.4 mg/kg to 35.8 mg/kg. However, the areas of auger holes (AH-1 through AH-5) showed elevated chloride concentrations at depths ranging from surface to 4.5' below surface, with chloride highs of 14,100 mg/kg, 7,170 mg/kg, 8,670 mg/kg, 11,500 mg/kg, and 5,890 mg/kg, respectively. The areas of auger holes (AH-2, AH-3, and AH-5) showed vertical delineation ranging from depths of 2.0'-4.0' below surface, however, the areas of auger holes (AH-1 and AH-4) did not show vertical delineation.

**TETRA TECH**

Remediation Activities

Tetra Tech personnel were onsite during October 2020, to supervise the remediation activities and collect confirmation samples. The areas of auger holes (AH-1, AH-2, and AH-4) was excavated to the depth of 4.0' below surface, the area of auger hole (AH-3) was excavated to the depths of 3.5'-4.0' below surface, and the area of auger hole (AH-5) was excavated to the depth of 1.5' below surface.

A total of sixteen (16) bottom hole samples were collected (Bottom Hole-1 through Bottom Hole-16) and twenty-four (24) sidewall samples (Sidewall-1 through Sidewall-24) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown on Figure 4.

Referring to Table 2, none of the samples collected showed TPH, benzene, and total BTEX above the laboratory reporting limits. Additionally, all confirmation samples showed chloride concentrations below the reclamation standard of <600 mg/kg in the top 4.0' of soil, and the below RRAL of <10,000 mg/kg in the deeper soils. Approximately 293 cubic yards of material were excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade.

Conclusion

Based on the laboratory results and remediation activities performed, COG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

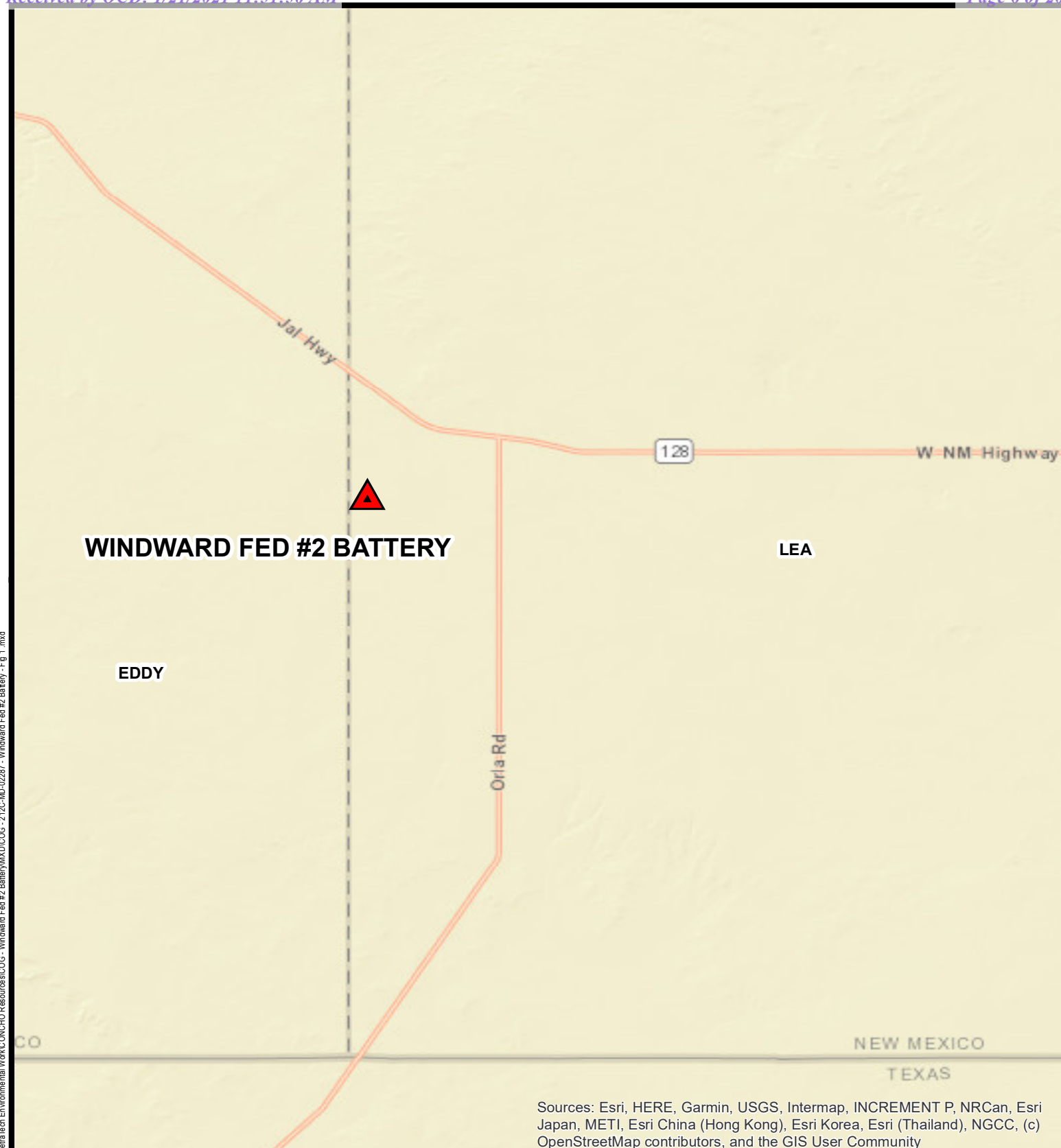
A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long,
Project Manager

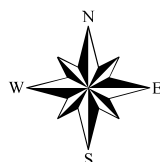
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales,
Senior Project Manager

Figures



 **SITE LOCATION**



0 2.5 5 Miles

Approximate Scale in Feet

OVERVIEW MAP

WINDWARD FED #2 BATTERY

Property Located at coordinates 32.195085° -103.719442°
LEA COUNTY, NEW MEXICO



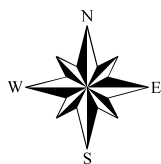
TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-02287
Date: 10/14/20
Drawn By: DN

FIGURE
1



Copyright: © 2013 National Geographic Society, i-cubed

**SITE LOCATION**

0 1,000 2,000
Approximate Scale in Feet

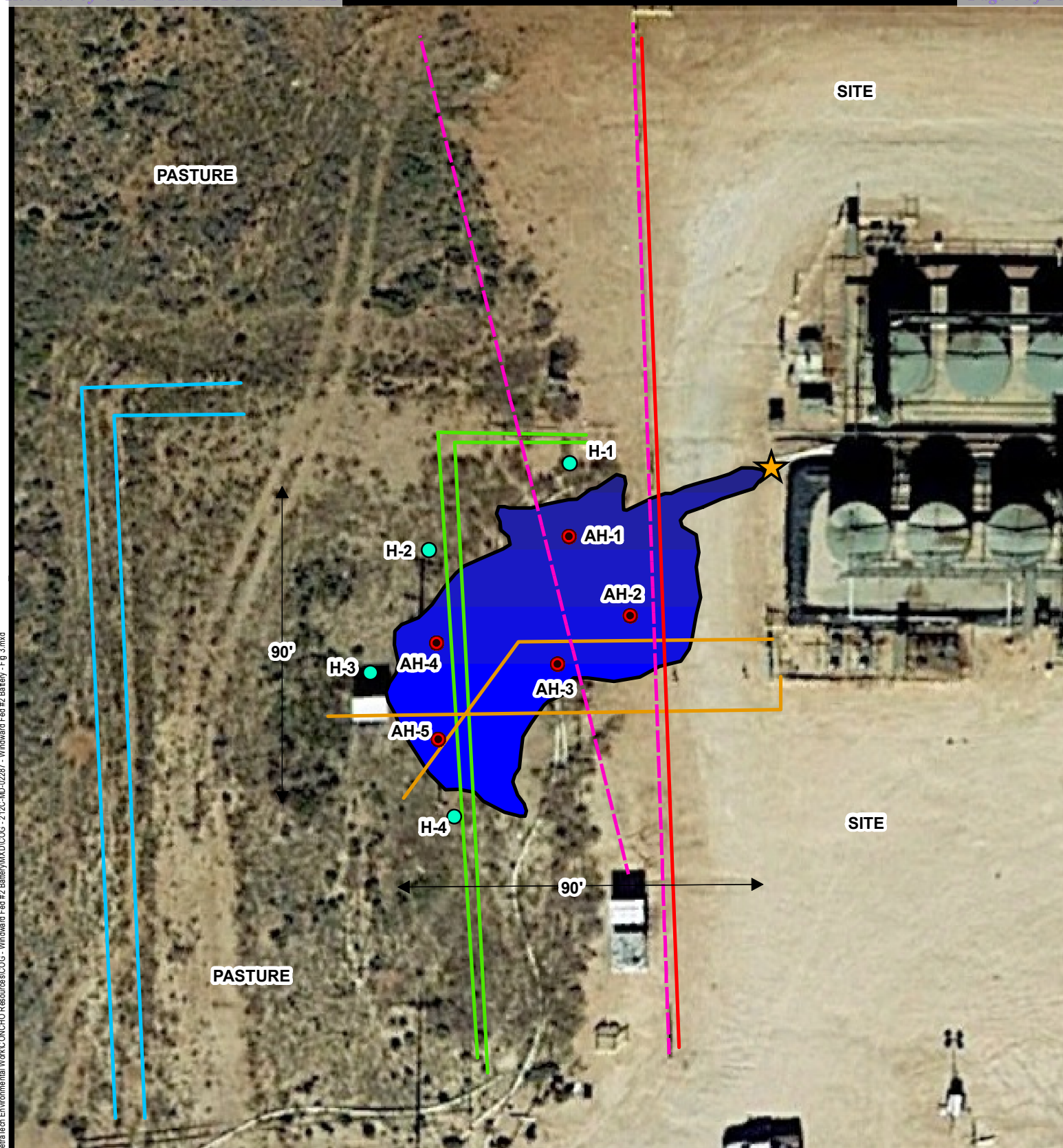
TOPOGRAPHIC MAP
WINDWARD FED #2 BATTERY
Property Located at coordinates 32.195085° -103.719442°
LEA COUNTY, NEW MEXICO



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FIGURE
2



- AUGERHOLE SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION



RELEASE SOURCE

- PLAINS LINES
- STEEL LINES
- - - BURRIED PIPELINES
- ELECTRICAL LINES
- FENCE
- SPILL



0 25 50

Approximate Scale in Feet

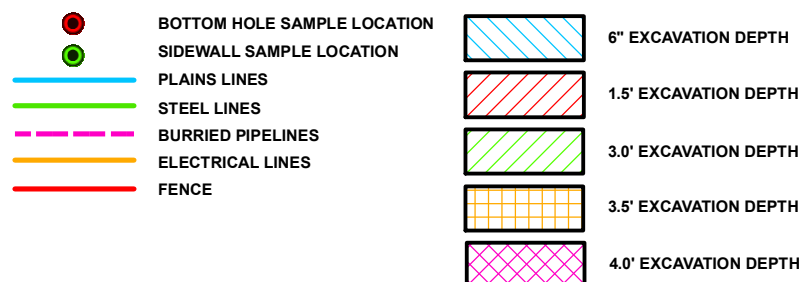
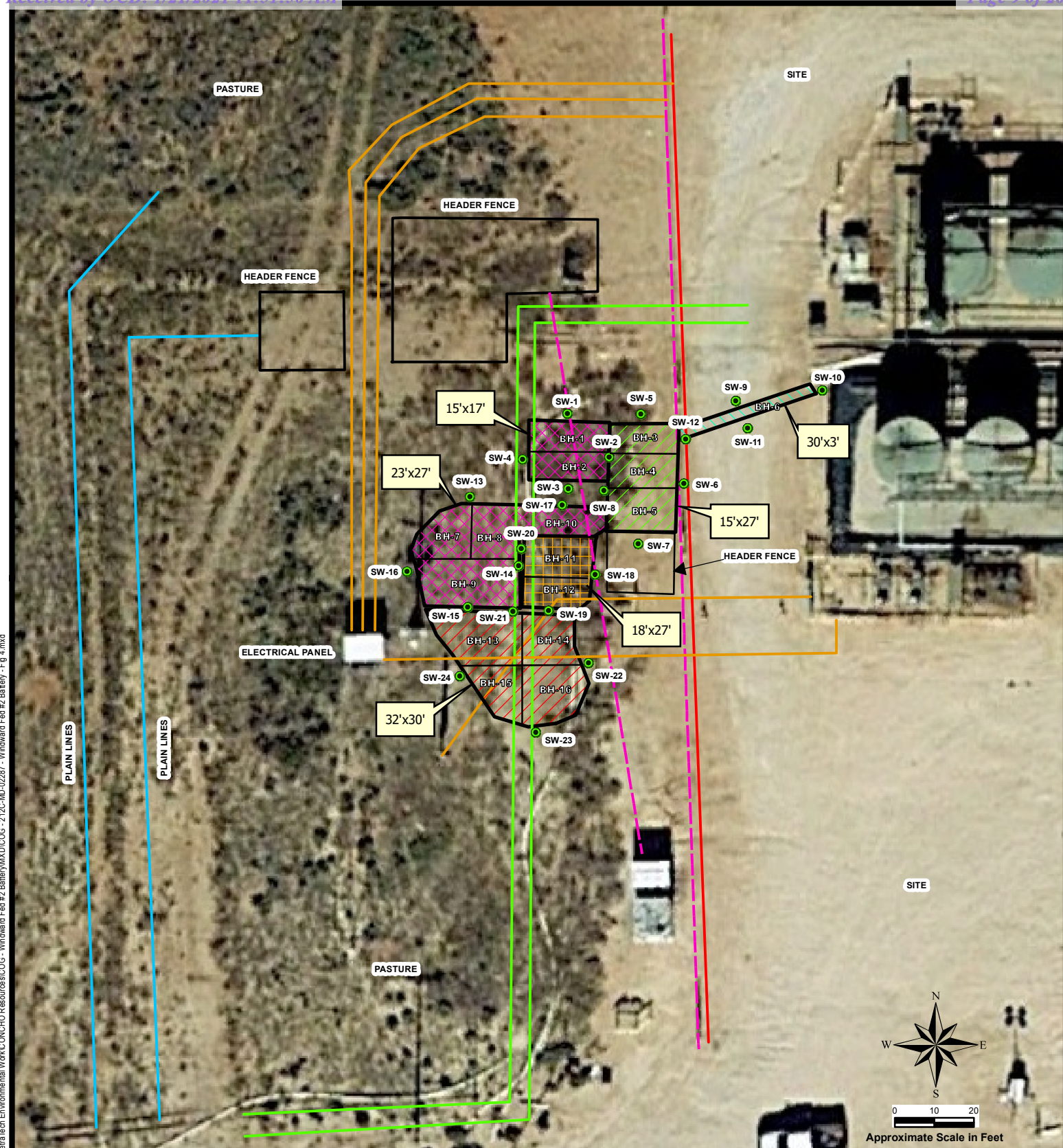
SPILL ASSESSMENT MAP
WINDWARD FED #2 BATTERY
Property Located at coordinates 32.195085° -103.719442°
LEA COUNTY, NEW MEXICO



TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-02287
Date: 11/11/20
Drawn By: DN

FIGURE
3



EXCAVATION AREA & DEPTH MAP
WINDWARD FED #2 BATTERY
 Property Located at coordinates 32.195085° -103.719442°
 LEA COUNTY, NEW MEXICO



Project #: 212C-MD-02287
 Date: 10/14/20
 Drawn By: DN

FIGURE
4

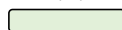
Tables

Table 1
Concho
Windward Federal 2H Battery (8.8.2020)
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-1	8/12/2020	0-1		X	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	7,550
	"	1-1.5		X	-	-	-	-	-	-	-	-	-	13,400
	"	2-2.5		X	-	-	-	-	-	-	-	-	-	14,100
	"	3-3.5		X	-	-	-	-	-	-	-	-	-	7,540
	"	4-4.5		X	-	-	-	-	-	-	-	-	-	7,200
AH-2	8/12/2020	0-1		X	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7,170
	"	1-1.5		X	-	-	-	-	-	-	-	-	-	6,120
	"	2-2.5		X	-	-	-	-	-	-	-	-	-	1,400
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	317
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	486
AH-3	8/12/2020	0-1		X	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	8,670
	"	1-1.5		X	-	-	-	-	-	-	-	-	-	4,770
	"	2-2.5		X	-	-	-	-	-	-	-	-	-	2,820
	"	3-3.5		X	-	-	-	-	-	-	-	-	-	745
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	418
AH-4	8/12/2020	0-1		X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	6,540
	"	1-1.5		X	-	-	-	-	-	-	-	-	-	11,300
	"	2-2.5		X	-	-	-	-	-	-	-	-	-	11,500
	"	3-3.5		X	-	-	-	-	-	-	-	-	-	3,000
	"	4-4.5		X	-	-	-	-	-	-	-	-	-	6,140
AH-5	8/12/2020	0-1		X	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	5,890
	"	1-1.5		X	-	-	-	-	-	-	-	-	-	872
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	204
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	95.7
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	48.3
Horizontal-1	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	35.8
Horizontal-2	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.7
Horizontal-3	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00198	0.00225	<0.00198	<0.00198	0.00225	15.2
Horizontal-4	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	12.4

(-)

Not Analyzed



Excavation Depth

Table 2
Concho
Windward Federal 2H Battery (8.8.2020)
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)					Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total						
Bottom Hole-1	10/8/2020	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,550
Bottom Hole-2	10/8/2020	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,620
Bottom Hole-3	10/8/2020	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	48.2
Bottom Hole-4	10/8/2020	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	46.0
Bottom Hole-5	10/8/2020	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	44.1
Bottom Hole-6	10/8/2020	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	188
Bottom Hole-7	10/8/2020	4.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,710
Bottom Hole-8	10/8/2020	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	4,340
Bottom Hole-9	10/8/2020	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	45.9
Bottom Hole-10	10/8/2020	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,070
Bottom Hole-11	10/8/2020	3.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	46.4
Bottom Hole-12	10/8/2020	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	47.6
Bottom Hole-13	10/8/2020	1.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	191
Bottom Hole-14	10/8/2020	1.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	156
Bottom Hole-15	10/8/2020	1.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	176
Bottom Hole-16	10/8/2020	1.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	154
SW-1	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	52.9
SW-2	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.9
SW-3	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7.42
SW-4	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	26.4
SW-5	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	61.7
SW-6	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	57.0
SW-7	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.7
SW-8	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	63.3
SW-9	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	25.8
SW-10	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	60.1
SW-11	10/8/2020	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	61.8
SW-12	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	30.3
SW-13	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	9.55
SW-14	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	9.02

Table 2
Concho
Windward Federal 2H Battery (8.8.2020)
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)					Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total						
SW-15	10/8/2020	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.4
SW-16	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.1
SW-17	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	9.65
SW-18	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	9.75
SW-19	10/8/2020	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.1
SW-20	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	10.6
SW-21	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	60.8
SW-22	10/8/2020	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	57.9
SW-23	10/8/2020	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	58.2
SW-24	10/8/2020	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	60.6

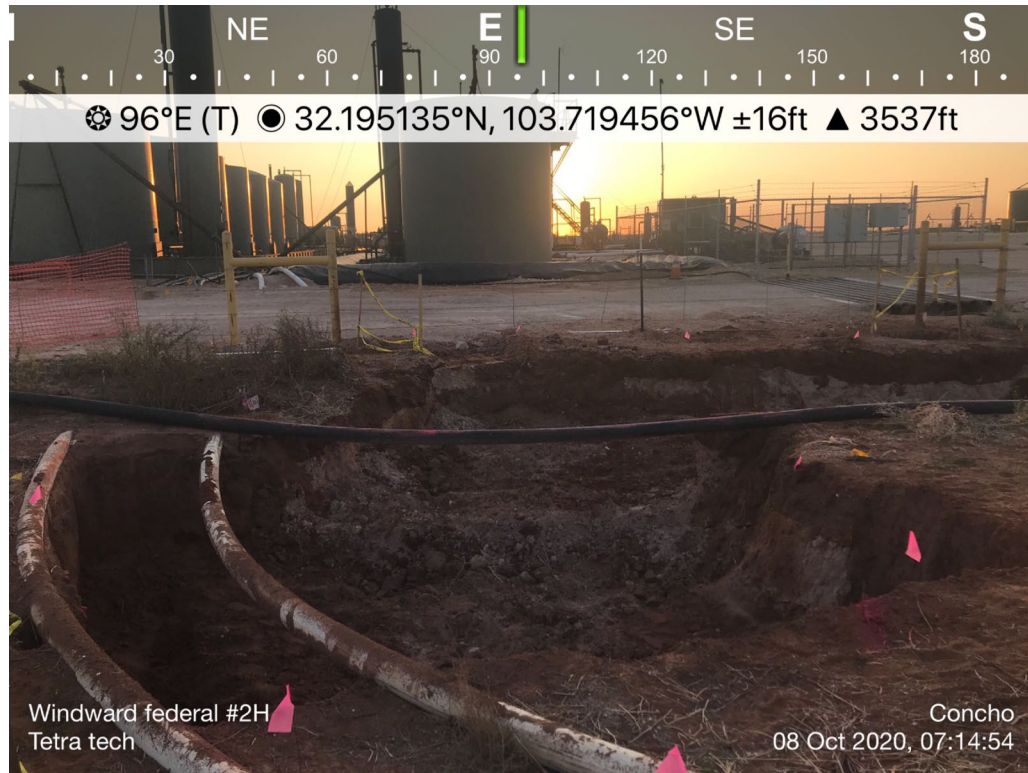
(-) Not Analyzed

Photos

COG Operating
Windward Federal #2H Battery
Lea County, New Mexico



TETRA TECH



East View of Remediation Activities



South View of Remediation Activities

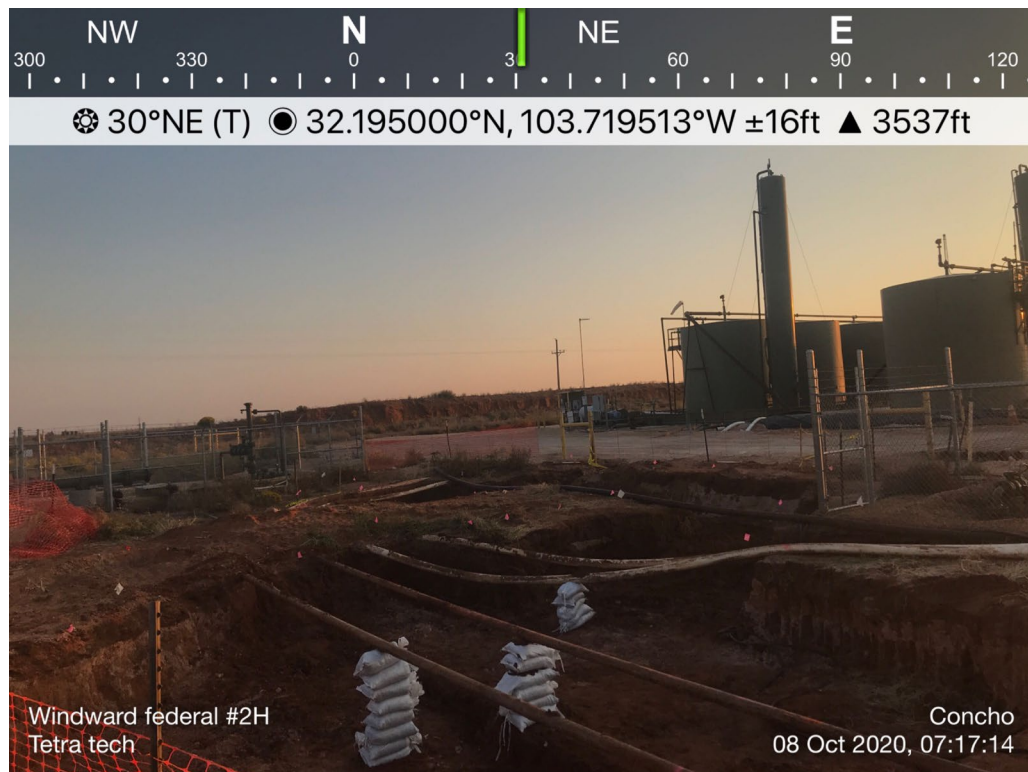
COG Operating
Windward Federal #2H Battery
Lea County, New Mexico



TETRA TECH



North View of Remediation Activities



Northeast View of Remediation Activites

Appendix A

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Battani Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: COG -Windward Federal 2H

Date of Spill: 8-Aug-2020

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations						Standing Liquid Calculations							
Total Surface Area	width	length	wet soil			oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)		
			depth										
Rectangle Area #1	70 ft	45 ft	X	1.50 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #2	0 ft	X	0 0	X	0.00 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0.00 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	2 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	3,150 sq. ft.	394 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled				Estimated Production Volumes Lost			
Liquid in Soil:	H2O 9.8 BBL	OIL 0.0 BBL		Estimated Production Spilled:	H2O 0.0 BBL	OIL 0.0 BBL	
Free Liquid:	0.0 BBL	0.0 BBL					
Totals:	9.8 BBL	0.0 BBL					
Estimated Surface Damage				Estimated Surface Damage			
Total Liquid Spill Liquid:	9.8 BBL	0.00 BBL		Surface Area:	3,150 sq. ft.		
				Surface Area:	.0723 acre		
Recovered Volumes				Estimated Weights, and Volumes			
Estimated oil recovered:	BBL	check - okay		Saturated Soil =	44,100 lbs	394 cu. ft.	15 cu. yds.
Estimated water recovered:	BBL	check - okay		Total Liquid =	10 BBL	412 gallon	3,431 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
 HC gas release reportable? NO
 H2S release reportable? NO
 Texas
 NO
 NO

Incident ID	NRM2023455067
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

Oil Conservation Division

Incident ID	NRM2023455067
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: 1/21/2021

email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 01/21/2021

Incident ID	NRM2023455067
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: *Lee Tavaraz* Date: 1/21/2021

email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 01/21/2021

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: *Cristina Eads* Date: 04/12/2021

Printed Name: Cristina Eads Title: Environmental Specialist

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Windward Federal #2H Battery
Lea County, New Mexico

23 South			31 East		
6	5	4	3	2	1
85	354	168			
7	8	9	10	11	12
140					
18	17	16	15	14	13
	125				
19	20	21	22	23	24
30	29	28	27	26	25
	140			430	
31	32	33	34	35	36

24 South			31 East		
6	5	4	3	2	1
				205	
				160	
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
					474

25 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
		390			
30	29	28	27	26	25
		290			
31	32	33	34	35	36

23 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
		400			
30	29	28	27	26	25
31	32	33	34	35	36

24 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
			20		
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
(Site)					
31	32	33	34	35	36
		290			

25 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
	290				

23 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			33 East		
6	5	4	3	2	1
7	8	9	10	20	
			22		
18	17	16	15	14	13
19	20	21	22	23	24
				208	16.9
30	29	28	27	26	25
31	32	33	70	34	35
		93.2			

25 South			33 East		
6	5	4	3	172	2
	118				
7	8	9	10	11	12
				140	200
18	17	16	15	14	13
					185
19	20	21	22	23	24
	200	120			
30	29	28	27	26	25
			125	110	
31	32	33	34	35	36
190					

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

TEST HOLES • WATER WELLS

LAMESA, TEXAS 79331

2001 South Hwy. 87

[illegible]

Date 8-4-20 Driller Loe Seaton

GIBBS PRINTING CO - LAMESA, TX

Released 9/9/2021 1:38:53 PM

Groundwater Determination Borehole Map

COG Windward Federal #2H
32.195085, -103.719442
Borehole Location: 32.195562, -103.721798

Legend

BH-1

COG Windward Federal #2H

Received by OGD: 1/21/2021 11:51:56 AM

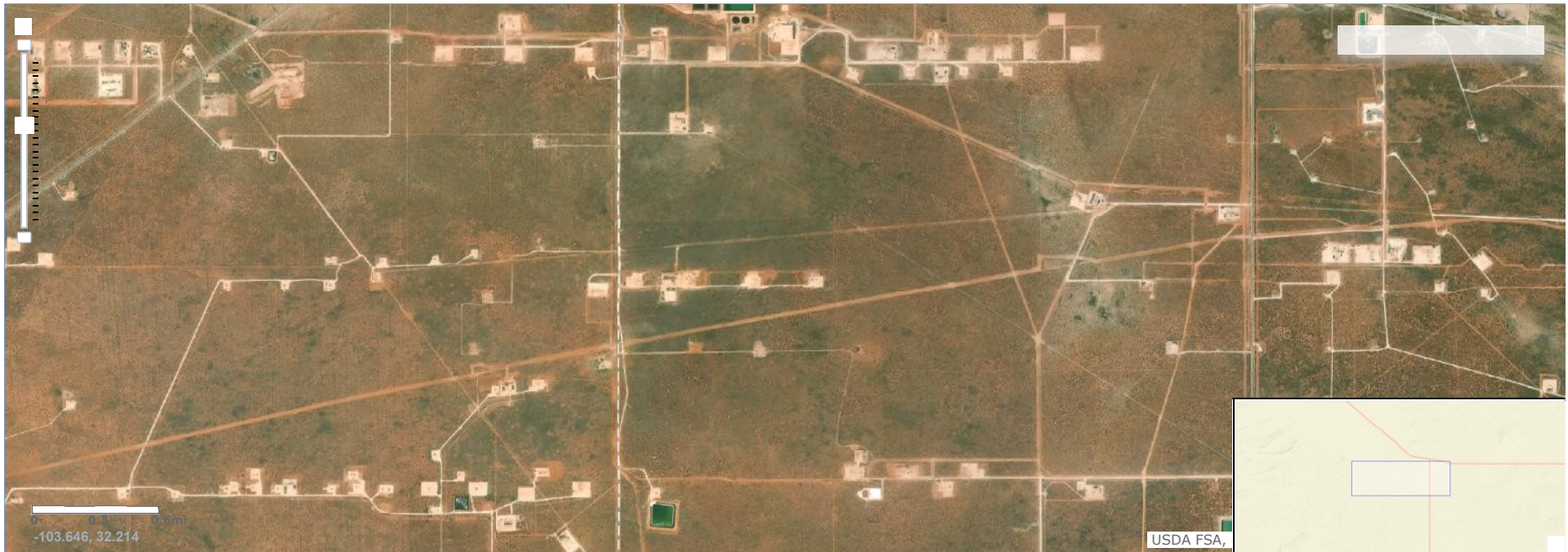




[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

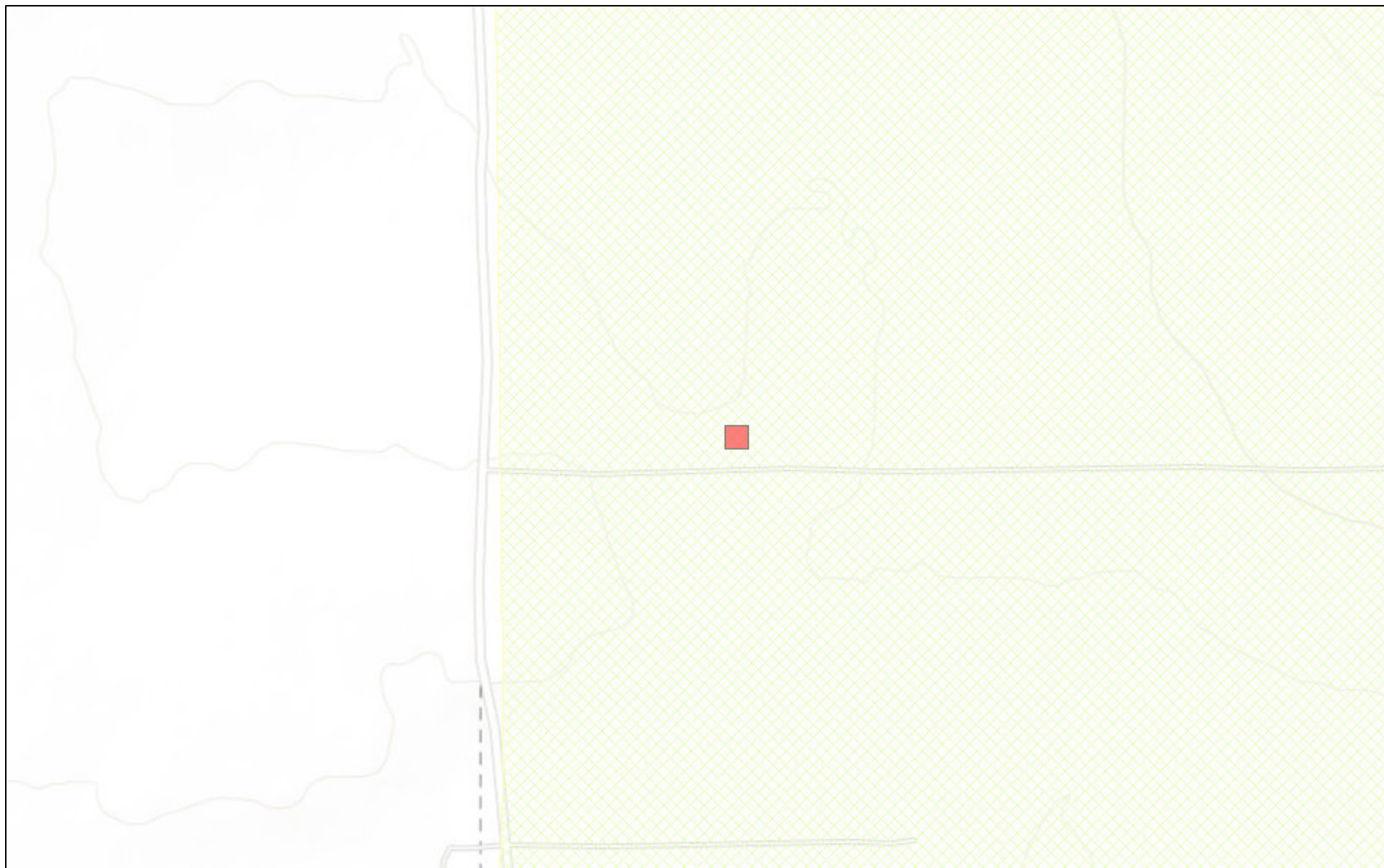
National Water Information System: Mapper

[Help](#) [Info](#)

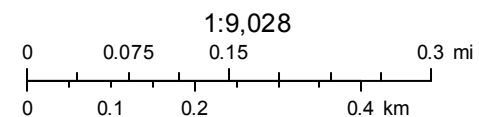


Site Information

New Mexico NFHL Data



October 15, 2020



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321005103402301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321005103402301 24S.32E.33.42241

Lea County, New Mexico

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

The depth of the well is 367 feet below land surface.

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

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1959-02-18		D	313.40			2		U			A
1981-06-12		D	304.40			2		U			A
1986-03-11		D	305.21			2		U			A
1991-05-29		D	287.45			2		U			A
1996-03-14		D	285.40			2		S			A
2001-02-27		D	288.68			2		S			A
2013-01-17	09:30 MST	m	289.69			2		S	USGS		A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)[Feedback on this web site](#)



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03527 POD1	C	LE		1	2	3	03	24S	32E	625770	3568487	500		
C 03528 POD1	C	LE		1	1	2	15	24S	32E	626040	3566129	541		
C 03530 POD1	C	LE		3	4	3	07	24S	32E	620886	3566156	550		
C 03555 POD1	C	LE		2	2	1	05	24S	32E	622748	3569233	600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

Record Count: 4

Basin/County Search:

County: Lea

PLSS Search:

Township: 24S

Range: 32E

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

Low Karst
OG Operating, LLC
Windward Federal Com #2H

Released to Imaging: 4/12/2021 1:38:53 PM

Legend

-  High
-  Low
-  Medium
-  Windward Federal Com #2H

Received by OCD: J/21/2021 11:51:56 AM

 Windward Federal Com #2H

128

Appendix C

Certificate of Analysis Summary 670008

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))

Project Id: 212C-MD-02287

Date Received in Lab: Thu 08.13.2020 15:21

Contact: Mike Carmona

Report Date: 08.17.2020 13:07

Project Location: Lea County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	670008-001	670008-002	670008-003	670008-004	670008-005	670008-006
	<i>Field Id:</i>	AH-1 (0-1')	AH-1 (1'-1.5')	AH-1 (2'-2.5')	AH-1 (3'-3.5')	AH-1 (4-4.5')	AH-2 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.14.2020 16:30					08.14.2020 16:30
	<i>Analyzed:</i>	08.14.2020 22:19					08.14.2020 22:40
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Benzene		<0.00201 0.00201					<0.00199 0.00199
Toluene		<0.00201 0.00201					<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201					<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402					<0.00398 0.00398
o-Xylene		<0.00201 0.00201					<0.00199 0.00199
Total Xylenes		<0.00201 0.00201					<0.00199 0.00199
Total BTEX		<0.00201 0.00201					<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40
	<i>Analyzed:</i>	08.14.2020 09:37	08.14.2020 09:56	08.14.2020 10:02	08.14.2020 10:08	08.14.2020 10:15	08.14.2020 10:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7550 50.0	13400 101	14100 99.2	7540 50.2	7200 50.0	7170 49.9
TPH by SW8015 Mod	<i>Extracted:</i>	08.13.2020 17:00					08.13.2020 17:00
	<i>Analyzed:</i>	08.13.2020 18:37					08.13.2020 19:35
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0					<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0					<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0					<49.8 49.8
Total TPH		<50.0 50.0					<49.8 49.8

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 670008

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))

Project Id: 212C-MD-02287
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21

Report Date: 08.17.2020 13:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	670008-007	670008-008	670008-009	670008-010	670008-011	670008-012
	<i>Field Id:</i>	AH-2 (1'-1.5')	AH-2 (2'-2.5')	AH-2 (3'-3.5')	AH-2 (4-4.5')	AH-3 (0-1')	AH-3 (1'-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>					08.14.2020 16:30	
	<i>Analyzed:</i>					08.14.2020 23:00	
	<i>Units/RL:</i>					mg/kg RL	
Benzene						<0.00202 0.00202	
Toluene						<0.00202 0.00202	
Ethylbenzene						<0.00202 0.00202	
m,p-Xylenes						<0.00403 0.00403	
o-Xylene						<0.00202 0.00202	
Total Xylenes						<0.00202 0.00202	
Total BTEX						<0.00202 0.00202	
Chloride by EPA 300	<i>Extracted:</i>	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40
	<i>Analyzed:</i>	08.14.2020 10:40	08.14.2020 10:46	08.14.2020 10:53	08.14.2020 10:59	08.14.2020 11:05	08.14.2020 11:25
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6120 50.5	1400 4.97	317 4.95	486 4.98	8670 50.3	4770 24.8
TPH by SW8015 Mod	<i>Extracted:</i>					08.13.2020 17:00	
	<i>Analyzed:</i>					08.13.2020 19:54	
	<i>Units/RL:</i>					mg/kg RL	
Gasoline Range Hydrocarbons (GRO)						<50.0 50.0	
Diesel Range Organics (DRO)						<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)						<50.0 50.0	
Total TPH						<50.0 50.0	

BRL - Below Reporting Limit

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Certificate of Analysis Summary 670008

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))

Project Id: 212C-MD-02287
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21

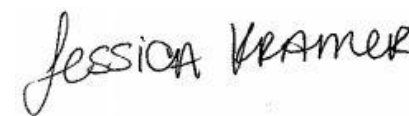
Report Date: 08.17.2020 13:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	670008-013	670008-014	670008-015	670008-016	670008-017	670008-018
	<i>Field Id:</i>	AH-3 (2'-2.5')	AH-3 (3'-3.5')	AH-3 (4'-4.5')	AH-4 (0-1')	AH-4 (1'-1.5')	AH-4 (2'-2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>				08.14.2020 16:30		
	<i>Analyzed:</i>				08.14.2020 23:21		
	<i>Units/RL:</i>				mg/kg RL		
Benzene					<0.00200 0.00200		
Toluene					<0.00200 0.00200		
Ethylbenzene					<0.00200 0.00200		
m,p-Xylenes					<0.00401 0.00401		
o-Xylene					<0.00200 0.00200		
Total Xylenes					<0.00200 0.00200		
Total BTEX					<0.00200 0.00200		
Chloride by EPA 300	<i>Extracted:</i>	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 08:40
	<i>Analyzed:</i>	08.14.2020 11:31	08.14.2020 11:50	08.14.2020 11:56	08.14.2020 12:03	08.14.2020 12:09	08.14.2020 12:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2820 25.3	745 5.05	418 4.99	6540 49.8	11300 99.0	11500 99.0
TPH by SW8015 Mod	<i>Extracted:</i>				08.13.2020 17:00		
	<i>Analyzed:</i>				08.13.2020 20:13		
	<i>Units/RL:</i>				mg/kg RL		
Gasoline Range Hydrocarbons (GRO)					<50.0 50.0		
Diesel Range Organics (DRO)					<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)					<50.0 50.0		
Total TPH					<50.0 50.0		

BRL - Below Reporting Limit

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Certificate of Analysis Summary 670008

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))

Project Id: 212C-MD-02287
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21

Report Date: 08.17.2020 13:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	670008-019	670008-020	670008-021	670008-022	670008-023	670008-024
	<i>Field Id:</i>	AH-4 (3'-3.5")	AH-4 (4'-4.5')	AH-5 (0-1')	AH-5 (1'-1.5')	AH-5 (2'-2.5')	AH-5 (3'-3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			08.14.2020 16:30			
	<i>Analyzed:</i>			08.14.2020 23:42			
	<i>Units/RL:</i>			mg/kg RL			
Benzene				<0.00202 0.00202			
Toluene				<0.00202 0.00202			
Ethylbenzene				<0.00202 0.00202			
m,p-Xylenes				<0.00404 0.00404			
o-Xylene				<0.00202 0.00202			
Total Xylenes				<0.00202 0.00202			
Total BTEX				<0.00202 0.00202			
Chloride by EPA 300	<i>Extracted:</i>	08.14.2020 08:40	08.14.2020 08:40	08.14.2020 09:45	08.14.2020 09:45	08.14.2020 09:45	08.14.2020 09:45
	<i>Analyzed:</i>	08.14.2020 12:22	08.14.2020 12:28	08.14.2020 10:45	08.14.2020 11:01	08.14.2020 11:06	08.14.2020 11:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3000 25.2	6140 49.9	5890 X 50.4	872 4.98	204 5.02	95.7 4.95
TPH by SW8015 Mod	<i>Extracted:</i>			08.13.2020 17:00			
	<i>Analyzed:</i>			08.13.2020 20:32			
	<i>Units/RL:</i>			mg/kg RL			
Gasoline Range Hydrocarbons (GRO)				<49.9 49.9			
Diesel Range Organics (DRO)				<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)				<49.9 49.9			
Total TPH				<49.9 49.9			

BRL - Below Reporting Limit

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Certificate of Analysis Summary 670008

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))

Project Id: 212C-MD-02287
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21
 Report Date: 08.17.2020 13:07
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	670008-025					
	Field Id:	AH-5 (4'-4.5')					
	Depth:						
	Matrix:	SOIL					
	Sampled:	08.12.2020 00:00					
Chloride by EPA 300	Extracted:	08.14.2020 09:45					
	Analyzed:	08.14.2020 11:16					
	Units/RL:	mg/kg RL					
Chloride		48.3 4.99					

BRL - Below Reporting Limit

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Analytical Report 670008

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020)

212C-MD-02287

08.17.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **670008**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020)

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670008. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670008 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	08.12.2020 00:00		670008-001
AH-1 (1'-1.5')	S	08.12.2020 00:00		670008-002
AH-1 (2'-2.5')	S	08.12.2020 00:00		670008-003
AH-1 (3'-3.5')	S	08.12.2020 00:00		670008-004
AH-1 (4'-4.5')	S	08.12.2020 00:00		670008-005
AH-2 (0-1')	S	08.12.2020 00:00		670008-006
AH-2 (1'-1.5')	S	08.12.2020 00:00		670008-007
AH-2 (2'-2.5')	S	08.12.2020 00:00		670008-008
AH-2 (3'-3.5')	S	08.12.2020 00:00		670008-009
AH-2 (4'-4.5')	S	08.12.2020 00:00		670008-010
AH-3 (0-1')	S	08.12.2020 00:00		670008-011
AH-3 (1'-1.5')	S	08.12.2020 00:00		670008-012
AH-3 (2'-2.5')	S	08.12.2020 00:00		670008-013
AH-3 (3'-3.5')	S	08.12.2020 00:00		670008-014
AH-3 (4'-4.5')	S	08.12.2020 00:00		670008-015
AH-4 (0-1')	S	08.12.2020 00:00		670008-016
AH-4 (1'-1.5')	S	08.12.2020 00:00		670008-017
AH-4 (2'-2.5')	S	08.12.2020 00:00		670008-018
AH-4 (3'-3.5')	S	08.12.2020 00:00		670008-019
AH-4 (4'-4.5')	S	08.12.2020 00:00		670008-020
AH-5 (0-1')	S	08.12.2020 00:00		670008-021
AH-5 (1'-1.5')	S	08.12.2020 00:00		670008-022
AH-5 (2'-2.5')	S	08.12.2020 00:00		670008-023
AH-5 (3'-3.5')	S	08.12.2020 00:00		670008-024
AH-5 (4'-4.5')	S	08.12.2020 00:00		670008-025

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020))**

Project ID: 212C-MD-02287
Work Order Number(s): 670008

Report Date: 08.17.2020
Date Received: 08.13.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134546 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7709438-1-BLK, 670008-021.

Batch: LBA-3134670 BTEX by EPA 8021B

Lab Sample ID 670008-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene recovered below QC limits in the Matrix Spike. m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 670008-001, -006, -011, -016, -021.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3134684 Chloride by EPA 300

Lab Sample ID 670009-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 670008-021, -022, -023, -024, -025.

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



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670008-001 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
 Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7550	50.0	mg/kg	08.14.2020 09:37		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 18:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 18:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 18:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 18:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.13.2020 18:37	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 18:37	



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (0-1')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-001

Date Collected: 08.12.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 16:30

Basis: Wet Weight

Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 22:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 22:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 22:19	UX	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 22:19	UX	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 22:19	UX	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 22:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 22:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.14.2020 22:19		
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.14.2020 22:19		

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (1'-1.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-002

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13400	101	mg/kg	08.14.2020 09:56		20

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (2'-2.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-003 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14100	99.2	mg/kg	08.14.2020 10:02		20

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (3'-3.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-004

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7540	50.2	mg/kg	08.14.2020 10:08		10

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-1 (4-4.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-005 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7200	50.0	mg/kg	08.14.2020 10:15		10



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670008-006 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
 Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7170	49.9	mg/kg	08.14.2020 10:34		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 19:35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	08.13.2020 19:35	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 19:35	



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (0-1')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-006

Date Collected: 08.12.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 16:30

Basis: Wet Weight

Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 22:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 22:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 22:40		
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.14.2020 22:40		

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (1'-1.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-007

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6120	50.5	mg/kg	08.14.2020 10:40		10

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (2'-2.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-008

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1400	4.97	mg/kg	08.14.2020 10:46		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (3'-3.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-009 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	317	4.95	mg/kg	08.14.2020 10:53		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-2 (4-4.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-010 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	486	4.98	mg/kg	08.14.2020 10:59		1



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670008-011 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
 Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8670	50.3	mg/kg	08.14.2020 11:05		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 19:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 19:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 19:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-130	08.13.2020 19:54	
o-Terphenyl	84-15-1	125	%	70-130	08.13.2020 19:54	



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (0-1')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-011

Date Collected: 08.12.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 16:30

Basis: Wet Weight

Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.14.2020 23:00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.14.2020 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.14.2020 23:00	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.14.2020 23:00	

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (1'-1.5)**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-012

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4770	24.8	mg/kg	08.14.2020 11:25		5

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (2'-2.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-013

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2820	25.3	mg/kg	08.14.2020 11:31		5

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (3'-3.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-014

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	745	5.05	mg/kg	08.14.2020 11:50		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-3 (4'-4.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-015 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	418	4.99	mg/kg	08.14.2020 11:56		1



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670008-016 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
 Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6540	49.8	mg/kg	08.14.2020 12:03		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 20:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 20:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 20:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 20:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.13.2020 20:13	
o-Terphenyl	84-15-1	130	%	70-130	08.13.2020 20:13	



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (0-1')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-016

Date Collected: 08.12.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 16:30

Basis: Wet Weight

Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.14.2020 23:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 23:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.14.2020 23:21	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.14.2020 23:21	

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (1'-1.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-017

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 08:40

Basis: Wet Weight

Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11300	99.0	mg/kg	08.14.2020 12:09		20

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (2'-2.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-018 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11500	99.0	mg/kg	08.14.2020 12:15		20

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (3'-3.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-019 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3000	25.2	mg/kg	08.14.2020 12:22		5

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-4 (4'-4.5')** Matrix: Soil Date Received: 08.13.2020 15:21
Lab Sample Id: 670008-020 Date Collected: 08.12.2020 00:00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 08:40 Basis: Wet Weight
Seq Number: 3134681

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6140	49.9	mg/kg	08.14.2020 12:28		10



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670008-021 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
 Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5890	50.4	mg/kg	08.14.2020 10:45	X	10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 20:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 20:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 20:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 20:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.13.2020 20:32	
o-Terphenyl	84-15-1	136	%	70-130	08.13.2020 20:32	**



Certificate of Analytical Results 670008

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (0-1')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-021

Date Collected: 08.12.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 16:30

Basis: Wet Weight

Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.14.2020 23:42	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.14.2020 23:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.14.2020 23:42	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.14.2020 23:42	

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (1'-1.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-022

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 09:45

Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	872	4.98	mg/kg	08.14.2020 11:01		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (2'-2.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-023

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 09:45

Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	5.02	mg/kg	08.14.2020 11:06		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (3'-3.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-024

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 09:45

Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.7	4.95	mg/kg	08.14.2020 11:11		1

**Certificate of Analytical Results 670008****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8.2020

Sample Id: **AH-5 (4'-4.5')**

Matrix: Soil

Date Received: 08.13.2020 15:21

Lab Sample Id: 670008-025

Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.14.2020 09:45

Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.3	4.99	mg/kg	08.14.2020 11:16		1

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8

Analytical Method: Chloride by EPA 300

Seq Number: 3134681

Matrix: Solid

Prep Method: E300P

Date Prep: 08.14.2020

MB Sample Id: 7709439-1-BLK

LCS Sample Id: 7709439-1-BKS

LCSD Sample Id: 7709439-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	234	94	235	94	90-110	0	20	mg/kg	08.14.2020 09:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Solid

Prep Method: E300P

Date Prep: 08.14.2020

MB Sample Id: 7709448-1-BLK

LCS Sample Id: 7709448-1-BKS

LCSD Sample Id: 7709448-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	241	96	241	96	90-110	0	20	mg/kg	08.14.2020 10:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3134681

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670008-001

MS Sample Id: 670008-001 S

MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7550	2500	10300	110	10200	106	90-110	1	20	mg/kg	08.14.2020 09:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3134681

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670008-011

MS Sample Id: 670008-011 S

MSD Sample Id: 670008-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8670	2520	11400	108	11300	104	90-110	1	20	mg/kg	08.14.2020 11:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670008-021

MS Sample Id: 670008-021 S

MSD Sample Id: 670008-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5890	2520	8660	110	8690	111	90-110	0	20	mg/kg	08.14.2020 10:50	X

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670009-006

MS Sample Id: 670009-006 S

MSD Sample Id: 670009-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.4	249	323	107	324	108	90-110	0	20	mg/kg	08.14.2020 12:38	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.13.2020

MB Sample Id: 7709438-1-BLK

LCS Sample Id: 7709438-1-BKS

LCSD Sample Id: 7709438-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	984	98	985	99	70-130	0	20	mg/kg	08.13.2020 17:58	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1040	104	70-130	1	20	mg/kg	08.13.2020 17:58	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	127		130			130			70-130	%	08.13.2020 17:58	
o-Terphenyl	135	**	129			127			70-130	%	08.13.2020 17:58	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.13.2020

MB Sample Id: 7709438-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 17:39	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Matrix: Soil

Prep Method: SW8015P

Date Prep: 08.13.2020

Parent Sample Id: 670008-001

MS Sample Id: 670008-001 S

MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	941	94	953	96	70-130	1	20	mg/kg	08.13.2020 18:56	
Diesel Range Organics (DRO)	<49.9	998	995	100	1030	103	70-130	3	20	mg/kg	08.13.2020 18:56	
Surrogate			MS %Rec	MS Flag		MSD %Rec	MSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane			129			89			70-130	%	08.13.2020 18:56	
o-Terphenyl			115			113			70-130	%	08.13.2020 18:56	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134670

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.14.2020

MB Sample Id: 7709516-1-BLK

LCS Sample Id: 7709516-1-BKS

LCSD Sample Id: 7709516-1-BSD

Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
	Result	Amount	Result	%Rec	Result	%Rec			Limit	Date		
Benzene	<0.00200	0.100	0.104	104	0.100	100	70-130	4	35	mg/kg	08.14.2020 19:56	
Toluene	<0.00200	0.100	0.0921	92	0.0869	87	70-130	6	35	mg/kg	08.14.2020 19:56	
Ethylbenzene	<0.00200	0.100	0.0886	89	0.0811	81	70-130	9	35	mg/kg	08.14.2020 19:56	
m,p-Xylenes	<0.00400	0.200	0.169	85	0.156	78	70-130	8	35	mg/kg	08.14.2020 19:56	
o-Xylene	<0.00200	0.100	0.0857	86	0.0778	78	70-130	10	35	mg/kg	08.14.2020 19:56	
Surrogate	MB	MB	LCS	LCS	LCSD	LCSD	Limits	Units	Analysis			
	%Rec	Flag	%Rec	Flag	%Rec	Flag			Date			
1,4-Difluorobenzene	105		105		105		70-130	%	08.14.2020 19:56			
4-Bromofluorobenzene	105		90		89		70-130	%	08.14.2020 19:56			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

**Tetra Tech- Midland**

Concho Windward Fiber Spar Leak (Windward Fed 2H Battery (8.8

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134670

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.14.2020

Parent Sample Id: 670008-001

MS Sample Id: 670008-001 S

MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0920	92	0.0923	92	70-130	0	35	mg/kg	08.14.2020 20:37	
Toluene	<0.00201	0.100	0.0770	77	0.0783	78	70-130	2	35	mg/kg	08.14.2020 20:37	
Ethylbenzene	<0.00201	0.100	0.0686	69	0.0705	71	70-130	3	35	mg/kg	08.14.2020 20:37	X
m,p-Xylenes	<0.00402	0.201	0.132	66	0.136	68	70-130	3	35	mg/kg	08.14.2020 20:37	X
o-Xylene	<0.00201	0.100	0.0654	65	0.0667	67	70-130	2	35	mg/kg	08.14.2020 20:37	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	08.14.2020 20:37
4-Bromofluorobenzene	93		96		70-130	%	08.14.2020 20:37

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

070008

Page 1 of 3

Client Name: Concho		Site Manager: Mike Carmona	
Project Name: Windward Fiber Spar Leak		Project #: BATEBY	
Project Location: Lea County, New Mexico		Project #: 27C-MD-02287	
Invoice to: Ike Tavaréz		Sampler Signature: Devin Dominguez	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	AH-1(0-1')	8/12/2020		X				X			1	N
	AH-1(1-1.5')	8/12/2020		X				X			1	N
	AH-1(2-2.5')	8/12/2020		X				X			1	N
	AH-1(3-3.5')	8/12/2020		X				X			1	N
	AH-1(4-4.5')	8/12/2020		X				X			1	N
	AH-2(0-1')	8/12/2020		X				X			1	N
	AH-2(1-1.5')	8/12/2020		X				X			1	N
	AH-2(2-2.5')	8/12/2020		X				X			1	N
	AH-2(3-3.5')	8/12/2020		X				X			1	N
	AH-2(4-4.5')	8/12/2020		X				X			1	N

Relinquished by: Comm	Date: 8/13/20	Time: 1521	Received by: [Signature]	Date: 8/13	Time: 1521
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B BTEX 8260B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance
TPH 8015R

Hold

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature

RUSH: Same Day 24 hr 48 hr 72 hr

Push Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Custody Record

Page 2 of 3



Tetra Tech, Inc.

 900 West Mall Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: Concho Site Manager: Mike Carmona

Project Name: Windward Fiber Spar Leak - WINDWARD FIBER SPAR LEAK (8-8-2020)

Project Location: Lea County, New Mexico Project #: 2126-WD-02287

Invoice to: Ike Tavares

Receiving Laboratory: Xenco Sampler Signature: Devin Dominguez

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	AH-3(0-1')	8/12/2020		X		X			1	N	
	AH-3(1-1.5')	8/12/2020		X		X			1	N	
	AH-3(2-2.5')	8/12/2020		X		X			1	N	
	AH-3(3-3.5')	8/12/2020		X		X			1	N	
	AH-3(4-4.5')	8/12/2020		X		X			1	N	
	AH-4(0-1')	8/12/2020		X		X			1	N	
	AH-4(1-1.5')	8/12/2020		X		X			1	N	
	AH-4(2-2.5')	8/12/2020		X		X			1	N	
	AH-4(3-3.5')	8/12/2020		X		X			1	N	
	AH-4(4-4.5')	8/12/2020		X		X			1	N	

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

 BTEX 8021B BTEX 8260B
 TPH TX1005 (Ext to C35)
 TPH 8015M (GRO - DRO - ORO - MRO)
 PAH 8270C
 Total Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Volatiles
 TCLP Semi Volatiles
 RCI
 GC/MS Vol. 8260B / 624
 GC/MS Semi. Vol. 8270C/625
 PCB's 8082 / 608
 NORM
 PLM (Asbestos)
 Chloride
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance
 TPH 8015R

Hold

REMARKS:

☐ STANDARD

 LAB USE ONLY
 Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 3 of 3

Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
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10008

[illegible]

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.13.2020 03.21.00 PM

Work Order #: 670008

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 08.13.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.14.2020

Certificate of Analysis Summary 670010

Tetra Tech- Midland, Midland, TX

Project Name: Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 08.13.2020 15:21

Contact: Mike Carmona

Report Date: 08.17.2020 13:07

Project Location: Lea County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	670010-001	670010-002	670010-003	670010-004		
	<i>Field Id:</i>	Horizontal-1 (0-1')	Horizontal-2 (0-1')	Horizontal-3 (0-1')	Horizontal-4 (0-1')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00	08.12.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	08.14.2020 16:30	08.14.2020 16:30	08.14.2020 16:30	08.14.2020 16:30		
	<i>Analyzed:</i>	08.15.2020 04:50	08.15.2020 05:10	08.15.2020 01:24	08.15.2020 02:48		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198		
Toluene		<0.00201 0.00201	<0.00200 0.00200	0.00225 0.00198	<0.00198 0.00198		
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198		
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00396 0.00396	<0.00396 0.00396		
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198		
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198		
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	0.00225 0.00198	<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	08.14.2020 09:45	08.14.2020 09:45	08.14.2020 09:45	08.14.2020 09:45		
	<i>Analyzed:</i>	08.14.2020 14:00	08.14.2020 14:05	08.14.2020 14:10	08.14.2020 14:16		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		35.8 5.03	14.7 5.00	15.2 4.99	12.4 4.97		
TPH by SW8015 Mod	<i>Extracted:</i>	08.13.2020 17:00	08.13.2020 17:00	08.13.2020 17:00	08.13.2020 17:00		
	<i>Analyzed:</i>	08.13.2020 20:51	08.13.2020 21:10	08.13.2020 21:29	08.13.2020 21:48		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		

BRL - Below Reporting Limit

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



Analytical Report 670010

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

212C-MD-02287

08.17.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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



08.17.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **670010**

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670010. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670010 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 670010****Tetra Tech- Midland, Midland, TX**

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	08.12.2020 00:00		670010-001
Horizontal-2 (0-1')	S	08.12.2020 00:00		670010-002
Horizontal-3 (0-1')	S	08.12.2020 00:00		670010-003
Horizontal-4 (0-1')	S	08.12.2020 00:00		670010-004



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Project ID: 212C-MD-02287
Work Order Number(s): 670010

Report Date: 08.17.2020
Date Received: 08.13.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134546 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7709438-1-BLK.



Certificate of Analytical Results 670010

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-1 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-001 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
 Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.8	5.03	mg/kg	08.14.2020 14:00		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 20:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 20:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 20:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 20:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.13.2020 20:51	
o-Terphenyl	84-15-1	130	%	70-130	08.13.2020 20:51	



Certificate of Analytical Results 670010

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-1 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-001 Date Collected: 08.12.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 16:30 Basis: Wet Weight
 Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.15.2020 04:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.15.2020 04:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.15.2020 04:50		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.15.2020 04:50		



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Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-2 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-002 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
 Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.7	5.00	mg/kg	08.14.2020 14:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 21:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 21:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 21:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 21:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.13.2020 21:10	
o-Terphenyl	84-15-1	127	%	70-130	08.13.2020 21:10	



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Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-2 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-002 Date Collected: 08.12.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 16:30 Basis: Wet Weight
 Seq Number: 3134670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.15.2020 05:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 05:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.15.2020 05:10		
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.15.2020 05:10		



Certificate of Analytical Results 670010

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-3 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-003 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
 Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	4.99	mg/kg	08.14.2020 14:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 21:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 21:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 21:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 21:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.13.2020 21:29	
o-Terphenyl	84-15-1	125	%	70-130	08.13.2020 21:29	



Certificate of Analytical Results 670010

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-3 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-003 Date Collected: 08.12.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 16:30 Basis: Wet Weight
 Seq Number: 3134668

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.15.2020 01:24	U	1
Toluene	108-88-3	0.00225	0.00198	mg/kg	08.15.2020 01:24		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 01:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.15.2020 01:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 01:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 01:24	U	1
Total BTEX		0.00225	0.00198	mg/kg	08.15.2020 01:24		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.15.2020 01:24		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.15.2020 01:24		



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Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-4 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-004 Date Collected: 08.12.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
 Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.4	4.97	mg/kg	08.14.2020 14:16		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 21:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 21:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 21:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 21:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-130	08.13.2020 21:48	
o-Terphenyl	84-15-1	125	%	70-130	08.13.2020 21:48	



Certificate of Analytical Results 670010

Tetra Tech- Midland, Midland, TX

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8.2020)

Sample Id: **Horizontal-4 (0-1')** Matrix: Soil Date Received: 08.13.2020 15:21
 Lab Sample Id: 670010-004 Date Collected: 08.12.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 16:30 Basis: Wet Weight
 Seq Number: 3134668

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.15.2020 02:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.15.2020 02:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.15.2020 02:48		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.15.2020 02:48		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Solid

Prep Method: E300P

Date Prep: 08.14.2020

MB Sample Id: 7709448-1-BLK

LCS Sample Id: 7709448-1-BKS

LCSD Sample Id: 7709448-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	241	96	241	96	90-110	0	20	mg/kg	08.14.2020 10:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670008-021

MS Sample Id: 670008-021 S

MSD Sample Id: 670008-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5890	2520	8660	110	8690	111	90-110	0	20	mg/kg	08.14.2020 10:50	X

Analytical Method: Chloride by EPA 300

Seq Number: 3134684

Matrix: Soil

Prep Method: E300P

Date Prep: 08.14.2020

Parent Sample Id: 670009-006

MS Sample Id: 670009-006 S

MSD Sample Id: 670009-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.4	249	323	107	324	108	90-110	0	20	mg/kg	08.14.2020 12:38	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.13.2020

MB Sample Id: 7709438-1-BLK

LCS Sample Id: 7709438-1-BKS

LCSD Sample Id: 7709438-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	984	98	985	99	70-130	0	20	mg/kg	08.13.2020 17:58	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1040	104	70-130	1	20	mg/kg	08.13.2020 17:58	

Surrogate

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		130		130		70-130	%	08.13.2020 17:58
o-Terphenyl	135	**	129		127		70-130	%	08.13.2020 17:58

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.13.2020

MB Sample Id: 7709438-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 17:39	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134546

Parent Sample Id: 670008-001

Matrix: Soil

MS Sample Id: 670008-001 S

Prep Method: SW8015P

Date Prep: 08.13.2020

MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	941	94	953	96	70-130	1	20	mg/kg	08.13.2020 18:56	
Diesel Range Organics (DRO)	<49.9	998	995	100	1030	103	70-130	3	20	mg/kg	08.13.2020 18:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		89		70-130	%	08.13.2020 18:56
o-Terphenyl	115		113		70-130	%	08.13.2020 18:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134668

MB Sample Id: 7709514-1-BLK

Matrix: Solid

LCS Sample Id: 7709514-1-BKS

Prep Method: SW5035A

Date Prep: 08.14.2020

LCSD Sample Id: 7709514-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.102	102	70-130	1	35	mg/kg	08.14.2020 19:58	
Toluene	<0.00200	0.100	0.0968	97	0.0997	100	70-130	3	35	mg/kg	08.14.2020 19:58	
Ethylbenzene	<0.00200	0.100	0.0930	93	0.0941	94	70-130	1	35	mg/kg	08.14.2020 19:58	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.190	95	70-130	2	35	mg/kg	08.14.2020 19:58	
o-Xylene	<0.00200	0.100	0.0937	94	0.0952	95	70-130	2	35	mg/kg	08.14.2020 19:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		98		70-130	%	08.14.2020 19:58
4-Bromofluorobenzene	104		100		99		70-130	%	08.14.2020 19:58

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134670

MB Sample Id: 7709516-1-BLK

Matrix: Solid

LCS Sample Id: 7709516-1-BKS

Prep Method: SW5035A

Date Prep: 08.14.2020

LCSD Sample Id: 7709516-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.100	100	70-130	4	35	mg/kg	08.14.2020 19:56	
Toluene	<0.00200	0.100	0.0921	92	0.0869	87	70-130	6	35	mg/kg	08.14.2020 19:56	
Ethylbenzene	<0.00200	0.100	0.0886	89	0.0811	81	70-130	9	35	mg/kg	08.14.2020 19:56	
m,p-Xylenes	<0.00400	0.200	0.169	85	0.156	78	70-130	8	35	mg/kg	08.14.2020 19:56	
o-Xylene	<0.00200	0.100	0.0857	86	0.0778	78	70-130	10	35	mg/kg	08.14.2020 19:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		105		70-130	%	08.14.2020 19:56
4-Bromofluorobenzene	105		90		89		70-130	%	08.14.2020 19:56

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland

Concho Windward Fiber Spar Leak-Windward Fed 2H Battery (8.8

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134668

Parent Sample Id: 669904-007

Matrix: Soil

MS Sample Id: 669904-007 S

Prep Method: SW5035A

Date Prep: 08.14.2020

MSD Sample Id: 669904-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0812	81	0.0830	83	70-130	2	35	mg/kg	08.14.2020 20:39	
Toluene	<0.00200	0.100	0.0745	75	0.0823	82	70-130	10	35	mg/kg	08.14.2020 20:39	
Ethylbenzene	<0.00200	0.100	0.0675	68	0.0608	61	70-130	10	35	mg/kg	08.14.2020 20:39	X
m,p-Xylenes	<0.00400	0.200	0.135	68	0.120	60	70-130	12	35	mg/kg	08.14.2020 20:39	X
o-Xylene	<0.00200	0.100	0.0663	66	0.0600	60	70-130	10	35	mg/kg	08.14.2020 20:39	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	08.14.2020 20:39
4-Bromofluorobenzene	102		102		70-130	%	08.14.2020 20:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134670

Parent Sample Id: 670008-001

Matrix: Soil

MS Sample Id: 670008-001 S

Prep Method: SW5035A

Date Prep: 08.14.2020

MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0920	92	0.0923	92	70-130	0	35	mg/kg	08.14.2020 20:37	
Toluene	<0.00201	0.100	0.0770	77	0.0783	78	70-130	2	35	mg/kg	08.14.2020 20:37	
Ethylbenzene	<0.00201	0.100	0.0686	69	0.0705	71	70-130	3	35	mg/kg	08.14.2020 20:37	X
m,p-Xylenes	<0.00402	0.201	0.132	66	0.136	68	70-130	3	35	mg/kg	08.14.2020 20:37	X
o-Xylene	<0.00201	0.100	0.0654	65	0.0667	67	70-130	2	35	mg/kg	08.14.2020 20:37	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	08.14.2020 20:37
4-Bromofluorobenzene	93		96		70-130	%	08.14.2020 20:37

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 1 of 1

[illegible]

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.13.2020 03.21.00 PM

Work Order #: 670010

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 08.13.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.14.2020

Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	674647-001 Bottom Hole-1 (4') SOIL 10.08.2020 00:00	674647-002 Bottom Hole-2 (4') SOIL 10.08.2020 00:00	674647-003 Bottom Hole-3 (4') SOIL 10.08.2020 00:00	674647-004 Bottom Hole-4 (4') SOIL 10.08.2020 00:00	674647-005 Bottom Hole-5 (4') SOIL 10.08.2020 00:00	674647-006 Bottom Hole-6 (4') SOIL 10.08.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:00 10.08.2020 17:31 mg/kg RL	10.08.2020 15:00 10.08.2020 17:52 mg/kg RL	10.08.2020 15:00 10.08.2020 18:12 mg/kg RL	10.08.2020 15:00 10.08.2020 18:34 mg/kg RL	10.08.2020 15:00 10.08.2020 18:55 mg/kg RL	10.08.2020 15:00 10.08.2020 19:15 mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00399 0.00399	<0.00403 0.00403	<0.00401 0.00401	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:50 10.08.2020 18:13 mg/kg RL	10.08.2020 15:50 10.08.2020 18:32 mg/kg RL	10.08.2020 15:50 10.08.2020 18:39 mg/kg RL	10.08.2020 15:50 10.08.2020 18:45 mg/kg RL	10.08.2020 15:50 10.08.2020 18:51 mg/kg RL	10.08.2020 15:50 10.08.2020 19:10 mg/kg RL
Chloride		3550 24.8	3620 25.1	48.2 4.98	46.0 5.00	44.1 5.04	188 5.00
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.09.2020 12:00 10.09.2020 13:38 mg/kg RL	10.09.2020 12:00 10.09.2020 14:45 mg/kg RL	10.09.2020 12:00 10.09.2020 15:07 mg/kg RL	10.09.2020 12:00 10.09.2020 15:29 mg/kg RL	10.09.2020 12:00 10.09.2020 15:52 mg/kg RL	10.09.2020 12:00 10.09.2020 16:14 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9

BRL - Below Reporting Limit

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Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	674647-007 Bottom Hole-7 (4') SOIL 10.08.2020 00:00	674647-008 Bottom Hole-8 (4') SOIL 10.08.2020 00:00	674647-009 Bottom Hole-9 (4') SOIL 10.08.2020 00:00	674647-010 Bottom Hole-10 (3.5') SOIL 10.08.2020 00:00	674647-011 Bottom Hole-11 (3.5') SOIL 10.08.2020 00:00	674647-012 Bottom Hole-12 (3.5') SOIL 10.08.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:00 10.08.2020 19:36 mg/kg RL	10.08.2020 15:00 10.08.2020 19:57 mg/kg RL	10.08.2020 15:00 10.08.2020 20:18 mg/kg RL	10.08.2020 15:00 10.08.2020 20:38 mg/kg RL	10.08.2020 15:00 10.08.2020 22:20 mg/kg RL	10.08.2020 15:00 10.08.2020 22:40 mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00404 0.00404	<0.00401 0.00401	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:50 10.08.2020 19:17 mg/kg RL	10.08.2020 15:50 10.08.2020 19:23 mg/kg RL	10.08.2020 15:50 10.08.2020 19:29 mg/kg RL	10.08.2020 15:50 10.08.2020 19:36 mg/kg RL	10.08.2020 15:50 10.08.2020 19:42 mg/kg RL	10.08.2020 15:50 10.08.2020 20:01 mg/kg RL
Chloride		3710 25.0	4340 24.9	45.9 5.02	4070 25.0	46.4 X 5.00	47.6 5.04
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.09.2020 12:00 10.09.2020 16:36 mg/kg RL	10.09.2020 12:00 10.09.2020 16:59 mg/kg RL	10.09.2020 12:00 10.09.2020 17:21 mg/kg RL	10.09.2020 12:00 10.09.2020 17:43 mg/kg RL	10.09.2020 12:00 10.09.2020 18:28 mg/kg RL	10.09.2020 12:00 10.09.2020 18:51 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0

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Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	674647-013 Bottom Hole-13 (1.5')	674647-014 Bottom Hole-14 (1.5')	674647-015 Bottom Hole-15 (1.5')	674647-016 Bottom Hole-16 (1.5')	674647-017 SW-1 (4')	674647-018 SW-2 (4')
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:00 10.08.2020 23:01 mg/kg RL	10.08.2020 15:00 10.08.2020 23:22 mg/kg RL	10.08.2020 15:00 10.08.2020 23:42 mg/kg RL	10.08.2020 15:00 10.09.2020 00:03 mg/kg RL	10.08.2020 15:00 10.09.2020 00:24 mg/kg RL	10.08.2020 15:00 10.09.2020 00:45 mg/kg RL
Benzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402	<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	<0.00401 0.00401
o-Xylene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.08.2020 15:50 10.08.2020 20:08 mg/kg RL	10.08.2020 15:50 10.08.2020 20:27 mg/kg RL	10.08.2020 15:50 10.08.2020 20:33 mg/kg RL	10.08.2020 15:50 10.08.2020 20:39 mg/kg RL	10.08.2020 15:50 10.08.2020 20:46 mg/kg RL	10.08.2020 15:50 10.08.2020 20:52 mg/kg RL
Chloride		191 4.96	156 4.98	176 5.00	154 5.03	52.9 4.95	20.9 5.05
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.09.2020 12:00 10.09.2020 19:13 mg/kg RL	10.09.2020 12:00 10.09.2020 19:35 mg/kg RL	10.09.2020 12:00 10.09.2020 19:57 mg/kg RL	10.09.2020 12:00 10.09.2020 20:20 mg/kg RL	10.09.2020 12:00 10.09.2020 20:42 mg/kg RL	10.09.2020 12:00 10.09.2020 21:05 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

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Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674647-019	674647-020	674647-021	674647-022	674647-023	674647-024
	<i>Field Id:</i>	SW-3 (4')	SW-4(4')	SW-5 (3')	SW-6 (3')	SW-7 (3')	SW-8 (3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	10.08.2020 15:00	10.08.2020 15:00	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00
	<i>Analyzed:</i>	10.09.2020 01:05	10.09.2020 01:26	10.09.2020 05:08	10.09.2020 05:29	10.09.2020 05:50	10.09.2020 06:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	10.08.2020 15:50	10.08.2020 15:50	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15
	<i>Analyzed:</i>	10.08.2020 20:58	10.08.2020 21:05	10.08.2020 21:04	10.08.2020 21:20	10.08.2020 21:25	10.08.2020 21:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7.42 4.98	26.4 4.95	61.7 5.02	57.0 4.98	11.7 5.00	63.3 5.04
TPH by SW8015 Mod	<i>Extracted:</i>	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00
	<i>Analyzed:</i>	10.09.2020 21:27	10.09.2020 21:50	10.09.2020 13:38	10.09.2020 14:45	10.09.2020 15:07	10.09.2020 15:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0

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Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674647-025	674647-026	674647-027	674647-028	674647-029	674647-030
	<i>Field Id:</i>	SW-9 (6')	SW-10 (6')	SW-11 (6')	SW-12 (6')	SW-13 (4')	SW-14 (4')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00	10.08.2020 17:00
	<i>Analyzed:</i>	10.09.2020 06:31	10.09.2020 06:52	10.09.2020 07:13	10.09.2020 07:34	10.09.2020 07:55	10.09.2020 08:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00400 0.00400	<0.00396 0.00396	<0.00398 0.00398	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15
	<i>Analyzed:</i>	10.08.2020 21:36	10.08.2020 21:51	10.08.2020 21:57	10.08.2020 22:02	10.08.2020 22:07	10.08.2020 22:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		25.8 4.96	60.1 5.00	61.8 5.05	30.3 5.02	9.55 4.96	9.02 4.98
TPH by SW8015 Mod	<i>Extracted:</i>	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00
	<i>Analyzed:</i>	10.09.2020 15:52	10.09.2020 16:14	10.09.2020 16:36	10.09.2020 16:59	10.09.2020 17:21	10.09.2020 17:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674647-031	674647-032	674647-033	674647-034	674647-035	674647-036
	<i>Field Id:</i>	SW-15 (4')	SW-16 (4')	SW-17 (3.5')	SW-18 (3.5')	SW-19 (3.5')	SW-20 (3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30
	<i>Analyzed:</i>	10.09.2020 17:46	10.09.2020 18:06	10.09.2020 18:27	10.09.2020 18:47	10.09.2020 19:08	10.09.2020 19:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00397 0.00397	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15
	<i>Analyzed:</i>	10.08.2020 22:18	10.08.2020 22:34	10.08.2020 22:39	10.08.2020 22:55	10.08.2020 23:00	10.08.2020 23:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10.4 X 5.00	10.1 5.04	9.65 4.98	9.75 4.96	10.1 4.95	10.6 5.03
TPH by SW8015 Mod	<i>Extracted:</i>	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00
	<i>Analyzed:</i>	10.09.2020 18:28	10.09.2020 18:51	10.09.2020 19:13	10.09.2020 19:35	10.09.2020 19:57	10.09.2020 20:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 674647



Tetra Tech- Midland, Midland, TX

Project Name: Windward Federal #2H Battery (8.8.20)

Project Id: 212C-MD-02287

Date Received in Lab: Thu 10.08.2020 11:44

Contact: Mike Carmona

Report Date: 10.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	674647-037	674647-038	674647-039	674647-040		
	Field Id:	SW-21 (1.5')	SW-22 (1.5')	SW-23 (1.5')	SW-24 (1.5')		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00	10.08.2020 00:00		
BTEX by EPA 8021B	Extracted:	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30	10.09.2020 08:30		
	Analyzed:	10.09.2020 19:49	10.09.2020 20:09	10.09.2020 20:30	10.09.2020 20:50		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00403 0.00403	<0.00399 0.00399		
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200		
Chloride by EPA 300	Extracted:	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15	10.08.2020 16:15		
	Analyzed:	10.08.2020 23:10	10.08.2020 23:16	10.08.2020 23:21	10.08.2020 23:26		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		60.8 5.00	57.9 4.99	58.2 4.97	60.6 4.95		
TPH by SW8015 Mod	Extracted:	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00	10.09.2020 12:00		
	Analyzed:	10.09.2020 20:42	10.09.2020 21:05	10.09.2020 21:27	10.09.2020 21:50		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		

BRL - Below Reporting Limit

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

Analytical Report 674647

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Windward Federal #2H Battery (8.8.20)

212C-MD-02287

10.12.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

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

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

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



10.12.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **674647**

Windward Federal #2H Battery (8.8.20)

Project Address:

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-1 (4')	S	10.08.2020 00:00		674647-001
Bottom Hole-2 (4')	S	10.08.2020 00:00		674647-002
Bottom Hole-3 (4')	S	10.08.2020 00:00		674647-003
Bottom Hole-4 (4')	S	10.08.2020 00:00		674647-004
Bottom Hole-5 (4')	S	10.08.2020 00:00		674647-005
Bottom Hole-6 (4')	S	10.08.2020 00:00		674647-006
Bottom Hole-7 (4')	S	10.08.2020 00:00		674647-007
Bottom Hole-8 (4')	S	10.08.2020 00:00		674647-008
Bottom Hole-9 (4')	S	10.08.2020 00:00		674647-009
Bottom Hole-10 (3.5')	S	10.08.2020 00:00		674647-010
Bottom Hole-11 (3.5')	S	10.08.2020 00:00		674647-011
Bottom Hole-12 (3.5')	S	10.08.2020 00:00		674647-012
Bottom Hole-13 (1.5')	S	10.08.2020 00:00		674647-013
Bottom Hole-14 (1.5')	S	10.08.2020 00:00		674647-014
Bottom Hole-15 (1.5')	S	10.08.2020 00:00		674647-015
Bottom Hole-16 (1.5')	S	10.08.2020 00:00		674647-016
SW-1 (4')	S	10.08.2020 00:00		674647-017
SW-2 (4')	S	10.08.2020 00:00		674647-018
SW-3 (4')	S	10.08.2020 00:00		674647-019
SW-4(4')	S	10.08.2020 00:00		674647-020
SW-5 (3')	S	10.08.2020 00:00		674647-021
SW-6 (3')	S	10.08.2020 00:00		674647-022
SW-7 (3')	S	10.08.2020 00:00		674647-023
SW-8 (3')	S	10.08.2020 00:00		674647-024
SW-9 (6')	S	10.08.2020 00:00		674647-025
SW-10 (6')	S	10.08.2020 00:00		674647-026
SW-11 (6')	S	10.08.2020 00:00		674647-027
SW-12 (6')	S	10.08.2020 00:00		674647-028
SW-13 (4')	S	10.08.2020 00:00		674647-029
SW-14 (4')	S	10.08.2020 00:00		674647-030
SW-15 (4')	S	10.08.2020 00:00		674647-031
SW-16 (4')	S	10.08.2020 00:00		674647-032
SW-17 (3.5')	S	10.08.2020 00:00		674647-033
SW-18 (3.5')	S	10.08.2020 00:00		674647-034
SW-19 (3.5)	S	10.08.2020 00:00		674647-035
SW-20 (3.5')	S	10.08.2020 00:00		674647-036
SW-21 (1.5')	S	10.08.2020 00:00		674647-037
SW-22 (1.5')	S	10.08.2020 00:00		674647-038
SW-23 (1.5')	S	10.08.2020 00:00		674647-039
SW-24 (1.5')	S	10.08.2020 00:00		674647-040

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Windward Federal #2H Battery (8.8.20)**

Project ID: 212C-MD-02287
Work Order Number(s): 674647

Report Date: 10.12.2020
Date Received: 10.08.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3139223 Chloride by EPA 300

Lab Sample ID 674647-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 674647-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

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

Batch: LBA-3139224 Chloride by EPA 300

Lab Sample ID 674647-031 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 674647-021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

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



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-1 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-001 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3550	24.8	mg/kg	10.08.2020 18:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	83	%	70-130	10.09.2020 13:38		
o-Terphenyl	84-15-1	91	%	70-130	10.09.2020 13:38		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-1 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-001

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.08.2020 17:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.08.2020 17:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.08.2020 17:31		
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.08.2020 17:31		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-2 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-002 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3620	25.1	mg/kg	10.08.2020 18:32		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 14:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 14:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 14:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 14:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	10.09.2020 14:45	
o-Terphenyl	84-15-1	94	%	70-130	10.09.2020 14:45	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-2 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-002

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.08.2020 17:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.08.2020 17:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.08.2020 17:52		
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.08.2020 17:52		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-3 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-003 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.2	4.98	mg/kg	10.08.2020 18:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 15:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 15:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 15:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 15:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	10.09.2020 15:07	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 15:07	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-3 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-003

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.08.2020 18:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.08.2020 18:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.08.2020 18:12		
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.08.2020 18:12		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-4 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-004 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.0	5.00	mg/kg	10.08.2020 18:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-130	10.09.2020 15:29		
o-Terphenyl	84-15-1	91	%	70-130	10.09.2020 15:29		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-4 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-004

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.08.2020 18:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.08.2020 18:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.08.2020 18:34		
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.08.2020 18:34		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-5 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-005 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.1	5.04	mg/kg	10.08.2020 18:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 15:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 15:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 15:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 15:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	10.09.2020 15:52	
o-Terphenyl	84-15-1	95	%	70-130	10.09.2020 15:52	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-5 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-005

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.08.2020 18:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.08.2020 18:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.08.2020 18:55		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.08.2020 18:55		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-6 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-006 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	188	5.00	mg/kg	10.08.2020 19:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-130	10.09.2020 16:14		
o-Terphenyl	84-15-1	91	%	70-130	10.09.2020 16:14		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-6 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-006

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.08.2020 19:15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.08.2020 19:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.08.2020 19:15		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.08.2020 19:15		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-7 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-007 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3710	25.0	mg/kg	10.08.2020 19:17		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	10.09.2020 16:36	
o-Terphenyl	84-15-1	87	%	70-130	10.09.2020 16:36	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-7 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-007

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.08.2020 19:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.08.2020 19:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.08.2020 19:36		
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.08.2020 19:36		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-8 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-008 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4340	24.9	mg/kg	10.08.2020 19:23		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	10.09.2020 16:59	
o-Terphenyl	84-15-1	87	%	70-130	10.09.2020 16:59	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-8 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-008

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.08.2020 19:57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.08.2020 19:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.08.2020 19:57		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.08.2020 19:57		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-9 (4')** Matrix: Soil Date Received: 10.08.2020 11:44
 Lab Sample Id: 674647-009 Date Collected: 10.08.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC
 Analyst: SPC Date Prep: 10.08.2020 15:50 % Moisture:
 Seq Number: 3139223 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	45.9	5.02	mg/kg	10.08.2020 19:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 10.09.2020 12:00 % Moisture:
 Seq Number: 3139379 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 17:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 17:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 17:21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 17:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-130	10.09.2020 17:21		
o-Terphenyl	84-15-1	94	%	70-130	10.09.2020 17:21		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-9 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-009

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.08.2020 20:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.08.2020 20:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.08.2020 20:18		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.08.2020 20:18		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-10 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-010

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4070	25.0	mg/kg	10.08.2020 19:36		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	80	%	70-130	10.09.2020 17:43		
o-Terphenyl	84-15-1	82	%	70-130	10.09.2020 17:43		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-10 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-010

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.08.2020 20:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.08.2020 20:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.08.2020 20:38		
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.08.2020 20:38		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-11 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-011

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.4	5.00	mg/kg	10.08.2020 19:42	X	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-130	10.09.2020 18:28		
o-Terphenyl	84-15-1	89	%	70-130	10.09.2020 18:28		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-11 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-011

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.08.2020 22:20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.08.2020 22:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.08.2020 22:20		
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.08.2020 22:20		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-12 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-012

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.6	5.04	mg/kg	10.08.2020 20:01		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 18:51		
o-Terphenyl	84-15-1	97	%	70-130	10.09.2020 18:51		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-12 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-012

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.08.2020 22:40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.08.2020 22:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.08.2020 22:40		
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.08.2020 22:40		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-13 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-013

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	4.96	mg/kg	10.08.2020 20:08		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-130	10.09.2020 19:13		
o-Terphenyl	84-15-1	89	%	70-130	10.09.2020 19:13		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-13 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-013

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.08.2020 23:01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.08.2020 23:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.08.2020 23:01		
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.08.2020 23:01		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-14 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-014

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	156	4.98	mg/kg	10.08.2020 20:27		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-130	10.09.2020 19:35		
o-Terphenyl	84-15-1	92	%	70-130	10.09.2020 19:35		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-14 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-014

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.08.2020 23:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.08.2020 23:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.08.2020 23:22		
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.08.2020 23:22		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-15 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-015

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	176	5.00	mg/kg	10.08.2020 20:33		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 19:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 19:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 19:57	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 19:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-130	10.09.2020 19:57		
o-Terphenyl	84-15-1	93	%	70-130	10.09.2020 19:57		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-15 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-015

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.08.2020 23:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.08.2020 23:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.08.2020 23:42		
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.08.2020 23:42		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-16 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-016

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	5.03	mg/kg	10.08.2020 20:39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-130	10.09.2020 20:20		
o-Terphenyl	84-15-1	81	%	70-130	10.09.2020 20:20		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **Bottom Hole-16 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-016

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.09.2020 00:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.09.2020 00:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.09.2020 00:03		
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.09.2020 00:03		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-1 (4')**
Lab Sample Id: 674647-017

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:
Basis: Wet Weight

Seq Number: 3139223

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	4.95	mg/kg	10.08.2020 20:46		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	10.09.2020 20:42	
o-Terphenyl	84-15-1	86	%	70-130	10.09.2020 20:42	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-1 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-017

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 00:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 00:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.09.2020 00:24		
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.09.2020 00:24		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-2 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-018

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.9	5.05	mg/kg	10.08.2020 20:52		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	10.09.2020 21:05	
o-Terphenyl	84-15-1	92	%	70-130	10.09.2020 21:05	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-2 (4')**
Lab Sample Id: 674647-018

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.09.2020 00:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 00:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 00:45		
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.09.2020 00:45		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-3 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-019

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:

Seq Number: 3139223

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.42	4.98	mg/kg	10.08.2020 20:58		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139379

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 21:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 21:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 21:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 21:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 21:27	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 21:27	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-3 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-019

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:

Seq Number: 3139217

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 01:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 01:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.09.2020 01:05		
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.09.2020 01:05		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-4(4')**
Lab Sample Id: 674647-020

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 15:50

% Moisture:
Basis: Wet Weight

Seq Number: 3139223

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.4	4.95	mg/kg	10.08.2020 21:05		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 21:50	
o-Terphenyl	84-15-1	96	%	70-130	10.09.2020 21:50	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-4(4')**
Lab Sample Id: 674647-020

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 15:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.09.2020 01:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.09.2020 01:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.09.2020 01:26		
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.09.2020 01:26		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-5 (3')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-021

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.7	5.02	mg/kg	10.08.2020 21:04		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 13:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	10.09.2020 13:38	
o-Terphenyl	84-15-1	94	%	70-130	10.09.2020 13:38	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-5 (3')**
Lab Sample Id: 674647-021

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.09.2020 05:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 05:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.09.2020 05:08		
1,4-Difluorobenzene	540-36-3	93	%	70-130	10.09.2020 05:08		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-6 (3')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-022

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.0	4.98	mg/kg	10.08.2020 21:20		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 14:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 14:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 14:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 14:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.09.2020 14:45	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 14:45	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-6 (3')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-022

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 05:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 05:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	78	%	70-130	10.09.2020 05:29		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.09.2020 05:29		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-7 (3')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-023

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	5.00	mg/kg	10.08.2020 21:25		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 15:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 15:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 15:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 15:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	10.09.2020 15:07	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 15:07	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-7 (3')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-023

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.09.2020 05:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 05:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.09.2020 05:50		
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.09.2020 05:50		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-8 (3')**
Lab Sample Id: 674647-024

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:
Basis: Wet Weight

Seq Number: 3139224

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.3	5.04	mg/kg	10.08.2020 21:30		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 15:29	
o-Terphenyl	84-15-1	90	%	70-130	10.09.2020 15:29	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-8 (3')**
Lab Sample Id: 674647-024

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.09.2020 06:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 06:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.09.2020 06:11		
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.09.2020 06:11		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-9 (6')**
Lab Sample Id: 674647-025

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:
Basis: Wet Weight

Seq Number: 3139224

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.8	4.96	mg/kg	10.08.2020 21:36		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 15:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 15:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 15:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 15:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.09.2020 15:52	
o-Terphenyl	84-15-1	98	%	70-130	10.09.2020 15:52	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-9 (6')**
Lab Sample Id: 674647-025

Matrix: Soil
Date Collected: 10.08.2020 00:00

Date Received: 10.08.2020 11:44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 06:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 06:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 06:31		
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.09.2020 06:31		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-10 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-026

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.1	5.00	mg/kg	10.08.2020 21:51		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 16:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-130	10.09.2020 16:14		
o-Terphenyl	84-15-1	94	%	70-130	10.09.2020 16:14		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-10 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-026

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.09.2020 06:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.09.2020 06:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.09.2020 06:52		
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.09.2020 06:52		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-11 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-027

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.8	5.05	mg/kg	10.08.2020 21:57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 16:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	10.09.2020 16:36	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 16:36	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-11 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-027

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.09.2020 07:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 07:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.09.2020 07:13		
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.09.2020 07:13		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-12 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-028

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.3	5.02	mg/kg	10.08.2020 22:02		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 16:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	10.09.2020 16:59	
o-Terphenyl	84-15-1	101	%	70-130	10.09.2020 16:59	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-12 (6')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-028

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.09.2020 07:34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.09.2020 07:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.09.2020 07:34		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 07:34		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-13 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-029

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.55	4.96	mg/kg	10.08.2020 22:07		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 17:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 17:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 17:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 17:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.09.2020 17:21	
o-Terphenyl	84-15-1	97	%	70-130	10.09.2020 17:21	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-13 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-029

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 07:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 07:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.09.2020 07:55		
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.09.2020 07:55		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-14 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-030

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.02	4.98	mg/kg	10.08.2020 22:12		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 17:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	10.09.2020 17:43	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 17:43	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-14 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-030

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.08.2020 17:00

% Moisture:

Seq Number: 3139219

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.09.2020 08:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.09.2020 08:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.09.2020 08:16		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 08:16		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-15 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-031

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	5.00	mg/kg	10.08.2020 22:18	X	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 18:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.09.2020 18:28	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 18:28	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-15 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-031

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.09.2020 17:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.09.2020 17:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.09.2020 17:46	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.09.2020 17:46	



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-16 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-032

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.1	5.04	mg/kg	10.08.2020 22:34		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 18:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-130	10.09.2020 18:51		
o-Terphenyl	84-15-1	98	%	70-130	10.09.2020 18:51		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-16 (4')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-032

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.09.2020 18:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 18:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.09.2020 18:06		
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 18:06		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-17 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-033

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.65	4.98	mg/kg	10.08.2020 22:39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 19:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 19:13	
o-Terphenyl	84-15-1	99	%	70-130	10.09.2020 19:13	



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-17 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-033

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 18:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 18:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 18:27		
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.09.2020 18:27		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-18 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-034

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.75	4.96	mg/kg	10.08.2020 22:55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	10.09.2020 19:35	
o-Terphenyl	84-15-1	95	%	70-130	10.09.2020 19:35	



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-18 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-034

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 18:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 18:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 18:47		
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.09.2020 18:47		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-19 (3.5)**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-035

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.1	4.95	mg/kg	10.08.2020 23:00		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 19:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 19:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 19:57	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 19:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-130	10.09.2020 19:57		
o-Terphenyl	84-15-1	104	%	70-130	10.09.2020 19:57		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-19 (3.5)**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-035

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 19:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 19:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.09.2020 19:08		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 19:08		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-20 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-036

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.6	5.03	mg/kg	10.08.2020 23:05		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 20:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-130	10.09.2020 20:20		
o-Terphenyl	84-15-1	95	%	70-130	10.09.2020 20:20		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-20 (3.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-036

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.09.2020 19:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.09.2020 19:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.09.2020 19:28		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.09.2020 19:28		



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Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-21 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-037

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.8	5.00	mg/kg	10.08.2020 23:10		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 20:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-130	10.09.2020 20:42		
o-Terphenyl	84-15-1	107	%	70-130	10.09.2020 20:42		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-21 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-037

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.09.2020 19:49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.09.2020 19:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.09.2020 19:49		
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.09.2020 19:49		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-22 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-038

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.9	4.99	mg/kg	10.08.2020 23:16		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.09.2020 21:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-130	10.09.2020 21:05		
o-Terphenyl	84-15-1	92	%	70-130	10.09.2020 21:05		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-22 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-038

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.09.2020 20:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.09.2020 20:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.09.2020 20:09		
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 20:09		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-23 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-039

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.2	4.97	mg/kg	10.08.2020 23:21		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.09.2020 21:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.09.2020 21:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.09.2020 21:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.09.2020 21:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-130	10.09.2020 21:27		
o-Terphenyl	84-15-1	92	%	70-130	10.09.2020 21:27		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-23 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-039

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.09.2020 20:30	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.09.2020 20:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 20:30		
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.09.2020 20:30		



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-24 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-040

Date Collected: 10.08.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: SPC

Date Prep: 10.08.2020 16:15

% Moisture:

Seq Number: 3139224

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.6	4.95	mg/kg	10.08.2020 23:26		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.09.2020 12:00

% Moisture:

Seq Number: 3139383

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.09.2020 21:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	10.09.2020 21:50	
o-Terphenyl	84-15-1	87	%	70-130	10.09.2020 21:50	



Certificate of Analytical Results 674647

Tetra Tech- Midland, Midland, TX

Windward Federal #2H Battery (8.8.20)

Sample Id: **SW-24 (1.5')**

Matrix: Soil

Date Received: 10.08.2020 11:44

Lab Sample Id: 674647-040

Date Collected: 10.08.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.09.2020 08:30

% Moisture:

Seq Number: 3139326

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.09.2020 20:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.09.2020 20:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.09.2020 20:50		
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.09.2020 20:50		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Windward Federal #2H Battery (8.8.20)

Analytical Method: Chloride by EPA 300

Seq Number: 3139223

MB Sample Id: 7712914-1-BLK

Matrix: Solid

LCS Sample Id: 7712914-1-BKS

Prep Method: E300P

Date Prep: 10.08.2020

LCSD Sample Id: 7712914-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	272	109	271	108	90-110	0	20	mg/kg	10.08.2020 18:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3139224

MB Sample Id: 7712919-1-BLK

Matrix: Solid

LCS Sample Id: 7712919-1-BKS

Prep Method: E300P

Date Prep: 10.08.2020

LCSD Sample Id: 7712919-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	268	107	267	107	90-110	0	20	mg/kg	10.08.2020 20:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3139223

Parent Sample Id: 674647-001

Matrix: Soil

MS Sample Id: 674647-001 S

Prep Method: E300P

Date Prep: 10.08.2020

MSD Sample Id: 674647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3550	1240	4910	110	4900	109	90-110	0	20	mg/kg	10.08.2020 18:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3139223

Parent Sample Id: 674647-011

Matrix: Soil

MS Sample Id: 674647-011 S

Prep Method: E300P

Date Prep: 10.08.2020

MSD Sample Id: 674647-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	46.4	250	324	111	323	111	90-110	0	20	mg/kg	10.08.2020 19:48	X

Analytical Method: Chloride by EPA 300

Seq Number: 3139224

Parent Sample Id: 674647-021

Matrix: Soil

MS Sample Id: 674647-021 S

Prep Method: E300P

Date Prep: 10.08.2020

MSD Sample Id: 674647-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	61.7	251	334	108	336	109	90-110	1	20	mg/kg	10.08.2020 21:09	

Analytical Method: Chloride by EPA 300

Seq Number: 3139224

Parent Sample Id: 674647-031

Matrix: Soil

MS Sample Id: 674647-031 S

Prep Method: E300P

Date Prep: 10.08.2020

MSD Sample Id: 674647-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	250	287	111	288	111	90-110	0	20	mg/kg	10.08.2020 22:23	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Tetra Tech- Midland

Windward Federal #2H Battery (8.8.20)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139379

MB Sample Id: 7713043-1-BLK

Matrix: Solid

LCS Sample Id: 7713043-1-BKS

Prep Method: SW8015P

Date Prep: 10.09.2020

LCSD Sample Id: 7713043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	842	84	837	84	70-130	1	20	mg/kg	10.09.2020 12:53	
Diesel Range Organics (DRO)	<50.0	1000	866	87	824	82	70-130	5	20	mg/kg	10.09.2020 12:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	74		79		75		70-130	%	10.09.2020 12:53
o-Terphenyl	85		89		84		70-130	%	10.09.2020 12:53

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139383

MB Sample Id: 7713047-1-BLK

Matrix: Solid

LCS Sample Id: 7713047-1-BKS

Prep Method: SW8015P

Date Prep: 10.09.2020

LCSD Sample Id: 7713047-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	852	85	70-130	19	20	mg/kg	10.09.2020 12:53	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	965	97	70-130	5	20	mg/kg	10.09.2020 12:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		100		90		70-130	%	10.09.2020 12:53
o-Terphenyl	100		109		111		70-130	%	10.09.2020 12:53

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139379

Matrix: Solid

MB Sample Id: 7713043-1-BLK

Prep Method: SW8015P

Date Prep: 10.09.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.09.2020 12:31	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139383

Matrix: Solid

MB Sample Id: 7713047-1-BLK

Prep Method: SW8015P

Date Prep: 10.09.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.09.2020 12:31	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland

Windward Federal #2H Battery (8.8.20)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139379

Parent Sample Id: 674647-001

Matrix: Soil

MS Sample Id: 674647-001 S

Prep Method: SW8015P

Date Prep: 10.09.2020

MSD Sample Id: 674647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	843	84	787	79	70-130	7	20	mg/kg	10.09.2020 14:00	
Diesel Range Organics (DRO)	<49.9	998	802	80	777	78	70-130	3	20	mg/kg	10.09.2020 14:00	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	84		88		70-130	%	10.09.2020 14:00
o-Terphenyl	90		97		70-130	%	10.09.2020 14:00

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139383

Parent Sample Id: 674647-021

Matrix: Soil

MS Sample Id: 674647-021 S

Prep Method: SW8015P

Date Prep: 10.09.2020

MSD Sample Id: 674647-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	931	93	867	87	70-130	7	20	mg/kg	10.09.2020 14:00	
Diesel Range Organics (DRO)	<49.8	996	851	85	922	92	70-130	8	20	mg/kg	10.09.2020 14:00	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		100		70-130	%	10.09.2020 14:00
o-Terphenyl	98		109		70-130	%	10.09.2020 14:00

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139217

MB Sample Id: 7712946-1-BLK

Matrix: Solid

LCS Sample Id: 7712946-1-BKS

Prep Method: SW5035A

Date Prep: 10.08.2020

LCSD Sample Id: 7712946-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.106	106	70-130	3	35	mg/kg	10.08.2020 14:45	
Toluene	<0.00200	0.100	0.109	109	0.110	110	70-130	1	35	mg/kg	10.08.2020 14:45	
Ethylbenzene	<0.00200	0.100	0.108	108	0.110	110	70-130	2	35	mg/kg	10.08.2020 14:45	
m,p-Xylenes	<0.00400	0.200	0.231	116	0.235	118	70-130	2	35	mg/kg	10.08.2020 14:45	
o-Xylene	<0.00200	0.100	0.108	108	0.111	111	70-130	3	35	mg/kg	10.08.2020 14:45	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		102		99		70-130	%	10.08.2020 14:45
4-Bromofluorobenzene	88		102		100		70-130	%	10.08.2020 14:45

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland
Windward Federal #2H Battery (8.8.20)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139219

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.08.2020

MB Sample Id: 7712947-1-BLK

LCS Sample Id: 7712947-1-BKS

LCSD Sample Id: 7712947-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0949	95	0.0893	89	70-130	6	35	mg/kg	10.09.2020 02:37	
Toluene	<0.00200	0.100	0.0952	95	0.0915	92	70-130	4	35	mg/kg	10.09.2020 02:37	
Ethylbenzene	<0.00200	0.100	0.0932	93	0.0890	89	70-130	5	35	mg/kg	10.09.2020 02:37	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.189	95	70-130	5	35	mg/kg	10.09.2020 02:37	
o-Xylene	<0.00200	0.100	0.0946	95	0.0919	92	70-130	3	35	mg/kg	10.09.2020 02:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		101		102		70-130	%	10.09.2020 02:37
4-Bromofluorobenzene	82		95		95		70-130	%	10.09.2020 02:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139326

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.09.2020

MB Sample Id: 7712995-1-BLK

LCS Sample Id: 7712995-1-BKS

LCSD Sample Id: 7712995-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0917	92	0.0996	100	70-130	8	35	mg/kg	10.09.2020 09:03	
Toluene	<0.00200	0.100	0.0862	86	0.102	102	70-130	17	35	mg/kg	10.09.2020 09:03	
Ethylbenzene	<0.00200	0.100	0.0925	93	0.102	102	70-130	10	35	mg/kg	10.09.2020 09:03	
m,p-Xylenes	<0.00400	0.200	0.186	93	0.204	102	70-130	9	35	mg/kg	10.09.2020 09:03	
o-Xylene	<0.00200	0.100	0.0917	92	0.101	101	70-130	10	35	mg/kg	10.09.2020 09:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		97		70-130	%	10.09.2020 09:03
4-Bromofluorobenzene	104		96		98		70-130	%	10.09.2020 09:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139217

Matrix: Soil

Prep Method: SW5035A

Date Prep: 10.08.2020

Parent Sample Id: 674647-001

MS Sample Id: 674647-001 S

MSD Sample Id: 674647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0860	86	0.0934	94	70-130	8	35	mg/kg	10.08.2020 15:26	
Toluene	<0.00200	0.100	0.0889	89	0.0960	97	70-130	8	35	mg/kg	10.08.2020 15:26	
Ethylbenzene	<0.00200	0.100	0.0862	86	0.0951	96	70-130	10	35	mg/kg	10.08.2020 15:26	
m,p-Xylenes	<0.00401	0.200	0.188	94	0.204	103	70-130	8	35	mg/kg	10.08.2020 15:26	
o-Xylene	<0.00200	0.100	0.0897	90	0.0978	99	70-130	9	35	mg/kg	10.08.2020 15:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		105		70-130	%	10.08.2020 15:26
4-Bromofluorobenzene	104		115		70-130	%	10.08.2020 15:26

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Tetra Tech- Midland

Windward Federal #2H Battery (8.8.20)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139219

Parent Sample Id: 674647-021

Matrix: Soil

MS Sample Id: 674647-021 S

Prep Method: SW5035A

Date Prep: 10.08.2020

MSD Sample Id: 674647-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0828	83	0.0789	78	70-130	5	35	mg/kg	10.09.2020 03:18	
Toluene	<0.00199	0.0994	0.0833	84	0.0800	79	70-130	4	35	mg/kg	10.09.2020 03:18	
Ethylbenzene	<0.00199	0.0994	0.0793	80	0.0779	77	70-130	2	35	mg/kg	10.09.2020 03:18	
m,p-Xylenes	<0.00398	0.199	0.168	84	0.168	83	70-130	0	35	mg/kg	10.09.2020 03:18	
o-Xylene	<0.00199	0.0994	0.0806	81	0.0809	80	70-130	0	35	mg/kg	10.09.2020 03:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		70-130	%	10.09.2020 03:18
4-Bromofluorobenzene	100		103		70-130	%	10.09.2020 03:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139326

Parent Sample Id: 674618-001

Matrix: Soil

MS Sample Id: 674618-001 S

Prep Method: SW5035A

Date Prep: 10.09.2020

MSD Sample Id: 674618-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0940	94	0.0794	79	70-130	17	35	mg/kg	10.09.2020 09:44	
Toluene	<0.00200	0.0998	0.0866	87	0.0665	67	70-130	26	35	mg/kg	10.09.2020 09:44	X
Ethylbenzene	0.00111	0.0998	0.0675	67	0.0519	51	70-130	26	35	mg/kg	10.09.2020 09:44	X
m,p-Xylenes	0.00382	0.200	0.134	65	0.103	50	70-130	26	35	mg/kg	10.09.2020 09:44	X
o-Xylene	0.00411	0.0998	0.0713	67	0.0565	52	70-130	23	35	mg/kg	10.09.2020 09:44	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	10.09.2020 09:44
4-Bromofluorobenzene	104		100		70-130	%	10.09.2020 09:44

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:		COG		Site Manager:		Mike Carmona															
Project Name:		Windward Federal #2H Battery (8.8.20)																			
Project Location:		Lea County, New Mexico				Project #:															
(county, state)						212C-MD-02287															
Invoice to:		Ike Tavaréz																			
Receiving Laboratory:		Xenco Labs				Sampler Signature: Devin D															
Comments:																					
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION				SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)							
						YEAR: 2020															
						DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE			
						Bottom Hole-1 (4')		10/8/2020				X						1 N		X	
						Bottom Hole-2 (4')		10/8/2020				X						1 N		X	
						Bottom Hole-3 (3')		10/8/2020				X						1 N		X	
						Bottom Hole-4 (3')		10/8/2020				X						1 N		X	
						Bottom Hole-5 (3')		10/8/2020				X						1 N		X	
						Bottom Hole-6 (6")		10/8/2020				X						1 N		X	
						Bottom Hole-7 (4')		10/8/2020				X						1 N		X	
Bottom Hole-8 (4')		10/8/2020				X						1 N		X							
Bottom Hole-9 (4')		10/8/2020				X						1 N		X							
Bottom Hole-10 (3.5')		10/8/2020				X						1 N		X							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:							
Relinquished by:		Date: 10/8/2020		Time: 11:44		Received by:		Date: 10/8/2020		Time: 11:44		LAB USE ONLY		REMARKS:</							

6746477

Page 1 of 4

Analysis Request of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

674467

Page 2 of 4

Client Name: COG		Site Manager: Mike Carmona	
Project Name: Windward Federal #2H Battery (8.8.20)			
Project Location: Lea County, New Mexico		Project #: 212C-MD-02287	
Invoice to: Ike Tavaréz			
Receiving Laboratory: Xenco Labs		Sampler Signature: Devin D	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE
	Bottom Hole-11 (3.5')	10/8/2020		X		X			1 N	
	Bottom Hole-12 (3.5')	10/8/2020		X		X			1 N	
	Bottom Hole-13 (1.5')	10/8/2020		X		X			1 N	
	Bottom Hole-14 (1.5')	10/8/2020		X		X			1 N	
	Bottom Hole-15 (1.5')	10/8/2020		X		X			1 N	
	Bottom Hole-16 (1.5')	10/8/2020		X		X			1 N	
	SW-1 (4)	10/8/2020		X		X			1 N	
	SW-2 (4)	10/8/2020		X		X			1 N	
	SW-3 (4)	10/8/2020		X		X			1 N	
	SW-4 (4)	10/8/2020		X		X			1 N	

Relinquished by:	Date: 10/8/2020	Time: 10:19	Received by:	Date: 10/8/2020	Time: 11:44
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
Sample Temperature	
2.3/2.8	
☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTX 8021B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 300.0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901 West Wall Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

674647

Page 3 of 4

Client Name:		COG		Site Manager:		Mike Carmona	
Project Name:		Windward Federal #2H Battery (8.8.20)					
Project Location: (county, state)		Lea County, New Mexico		Project #:		212C-MD-02287	
Invoice to:		Ike Tavaréz					
Receiving Laboratory:		Xenco Labs		Sampler Signature:		Devín D	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE
	SW-5 (3)	10/8/2020		X		X		1	N	
	SW-6 (3)	10/8/2020		X		X		1	N	
	SW-7 (3)	10/8/2020		X		X		1	N	
	SW-8 (3)	10/8/2020		X		X		1	N	
	SW-9 (6")	10/8/2020		X		X		1	N	
	SW-10 (6")	10/8/2020		X		X		1	N	
	SW-11 (6")	10/8/2020		X		X		1	N	
	SW-12 (6")	10/8/2020		X		X		1	N	
	SW-13 (4)	10/8/2020		X		X		1	N	
	SW-14 (4)	10/8/2020		X		X		1	N	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	10/8			10/8/2020	11:44
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:	ANALYSIS REQUEST (Circle or Specify Method No.)	
		BTEX 8021B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride 300.0 Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	
Sample Temperature 2.3/2.8	☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report		

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: COG Site Manager: Mike Carmona

Project Name: Windward Federal #2H Battery (8.8.20)

Project Location: Lea County, New Mexico

Project #:

212C-MD-02287

Invoice to:

Ike Tavaréz

Receiving Laboratory:

Xenco Labs

Sampler Signature:

Devin D

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2020

DATE

TIME

MATRIX

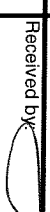
PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE

CONTAINERS

FILTERED (Y/N)

SW-15 (4')	10/8/2020		X						1	N
SW-16 (4')	10/8/2020		X						1	N
SW-17 (3.5')	10/8/2020		X						1	N
SW-18 (3.5')	10/8/2020		X						1	N
SW-19 (3.5')	10/8/2020		X						1	N
SW-20 (3.5')	10/8/2020		X						1	N
SW-21 (1.5')	10/8/2020		X						1	N
SW-22 (1.5')	10/8/2020		X						1	N
SW-23 (1.5')	10/8/2020		X						1	N
SW-24 (1.5')	10/8/2020		X						1	N

Relinquished by:  Date: 10/8/2020 Time: 10:18Relinquished by:  Date: 10/8/2020 Time: 11:44

Relinquished by: Date: Time:

Date: Time:

Received by: Date: Time:

Date: Time:

Date: Time:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTX 8021B
 TPH TX1005 (Ext to C35)
 TPH 8015M (GRO - DRO - ORO - MRO)
 PAH 8270C
 Total Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Volatiles
 TCLP Semi Volatiles
 RCI
 GC/MS Vol. 8260B / 624
 GC/MS Semi. Vol. 8270C/625
 PCB's 8082 / 608
 NORM
 PLM (Asbestos)
 Chloride 300.0
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance

Hold

LAB USE ONLY

REMARKS:

Sample Temperature

2.3/2.8

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

674047

Page 4 of 4

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 10.08.2020 11.44.00 AM

Work Order #: 674647

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes BTEX was in bulk container
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 10.08.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.08.2020

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 15249

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	15249	Action Type:	C-141
OCD Reviewer	Condition								
ceads	None								