SITE INFORMATION

Report Type: Work Plan

General Site Information:						
Site:	Sea Biscuit Federal Com 002H (5.20.2020)					
Company:	COG Operating LLC					
Section, Township and Range	Unit H	Sec. 12	T 24S	R 31E		
Lease Number:	API No. 30-015-37607					
County:	Eddy County					
GPS:	32.233011			-103.72022		
Surface Owner:	Federal					
Mineral Owner:	Federal					
Directions:	From intersection HWY 1 and HWY 128, travel west for 3.12 miles, Turn left onto lease road, follow for 0.15 miles. Release located on the right.					

Release Data:	
Date Released:	5/2/2020
Type Release:	Produced Water
Source of Contamination:	Flowline
Fluid Released:	100 bbl water
Fluids Recovered:	0 bbls water

Official Communication:			
Name:	Ike Tavarez		Mike Carmona
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) 685-4559
Fax:	(432) 684-7137		
Email:	itavarez@conchoresources.com		Mike.Carmona@tetratech.com

Site Characterization	
Depth to Groundwater:	*380' 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*

November 2, 2020

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

Re: Work Plan for the COG Operating, LLC, Sea Biscuit Federal Com #2H, Unit H, Section 12, Township 24 South, Range 31 East, Eddy County, New Mexico. NRM2013962666

Mr Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess a release that occurred at the Sea Biscuit Federal Com #2H, Unit H, Section 12, Township 24 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.233011°, -103.720220°. The site location is shown on Figures 1 and 2.

BACKGROUND INFORMATION

According to the State of New Mexico C-141 Initial Report, the release was discovered on May 2, 2020, and released approximately 100 barrels of produced water due to a ruptured transfer pump flowline. None of produced water was recovered. The release in the pasture impacted an area measuring approximately 525' x 90'. The release occurred along a right-of-way impacting the areas of surface flowlines, DCP line and Mesquite water line. The 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. The site is in a low karst potential area.

The nearest water well is listed on NMOSE database, approximately 1.93 miles northeast of the site, and has a reported depth to groundwater of 380'. The site characterization data is shown in Appendix B.

On August 5, 2020, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55' below ground surface, and within a ½ mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below surface. The coordinates for the groundwater determination bore are 32.233386 -103.719410. See Appendix B for the driller's log.

Tetra Tech
901 West Wall St, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

TETRA TECH

REGULATORY

A risk-based evaluation was performed for the site by 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 on the site characterization, the proposed RRALs for the top 4.0' of soil for TPH is 100 mg/kg (GRO + DRO + MRO) and for chlorides is 600 mg/kg. Below 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

On August 6 and August 12, 2020, Tetra Tech personnel were onsite to evaluate and sample the release area. To assess the release, a total of six (6) boreholes were installed (BH-1 through BH-6) on August 6, and a total of eleven (11) horizontal samples were collected on August 12 to horizontally delineate the area. Samples collected selected were Selected 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 and The sample locations are shown on Figures 3.

Borehole Installation

In the release area, a total of six (6) boreholes were installed to total depths ranging from surface to 30.0' below surface. Additional boreholes were not installed due to access issues in the area.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the laboratory reporting limits. However, samples collected from boreholes (BH-1, BH-3, and BH-4) reported concentrations exceeding TPH RRALs showing total TPH concentrations ranging from 199 mg/kg to 2,670 mg/kg at depths of surface to 3.0' below surface.

All boreholes showed elevated chloride concentrations ranging from 779 mg/kg to 27,100 mg/kg. Boreholes (BH-1, BH-3, and BH-5) were vertically defined at 9.0'-10.0', boreholes (BH-2 and BH-4) were vertically defined at 6.0'-7.0', and borehole (BH-6) was vertically defined at 2.0'-3.0' below surface.

Horizontal Samples

In the outer perimeter of the release area, a total of eleven (11) horizontals were installed to total depths ranging from surface to 1.0' below surface. Referring to Table 1, none of the samples analyzed showed benzene, total BTEX, and total TPH concentrations above the laboratory reporting limits. In addition, all samples collected showed chloride concentrations below RRALs, ranging from 10.3 mg/kg to 185 mg/kg.

TETRA TECH

PROPOSED WORK PLAN

Based on the laboratory results, the chloride and TPH concentrations detected, COG proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1.

- The area of BH-1, BH-3, and BH-5 will be excavated to a depth of 6.0' below surface and backfilled with clean material to grade.
- The areas of BH-2 and BH-4, will be excavated to a depth of 4.0' below surface and backfilled with clean material to grade.
- The area of BH-6 will be excavated to a depth of 1.0' below surface and backfilled with clean material to grade.

Sampling Plan and Backfilling

Five-point composite bottom and sidewall confirmation samples will be collected every 400 square feet to ensure proper removal of the impacted areas. Once completed, the excavated areas will then be backfilled with clean material to surface grade. All the excavated material will be transported offsite for proper disposal. COG estimates approximately 3,122 cubic yards will be excavated and will be implemented within ninety (90) days of the work plan being approved.

Safety Concerns

The release migrated along a pipeline right-of-way impacting the areas along flowlines, DCP line and Mequite water line. The proposed excavation depths may not be reached due to wall cave-ins and safety concerns for onsite personnel. Also, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.

CONCLUSION

Once the remediation activities have been completed, a final report will be submitted. 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

Mike Carmona,
Geologist

Brittany Long,
Environmental Scientist

Figures

SITE LOCATION

N
W E
S

0 10,416.5 20,833

Approximate Scale in Feet

STATE LOCATOR MAP

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

OVERVIEW MAP
SEA BISCUIT FEDERAL COM #2H
Property Located at coordinates 32.233011°,-103.720220°
LEA COUNTY, NEW MEXICO

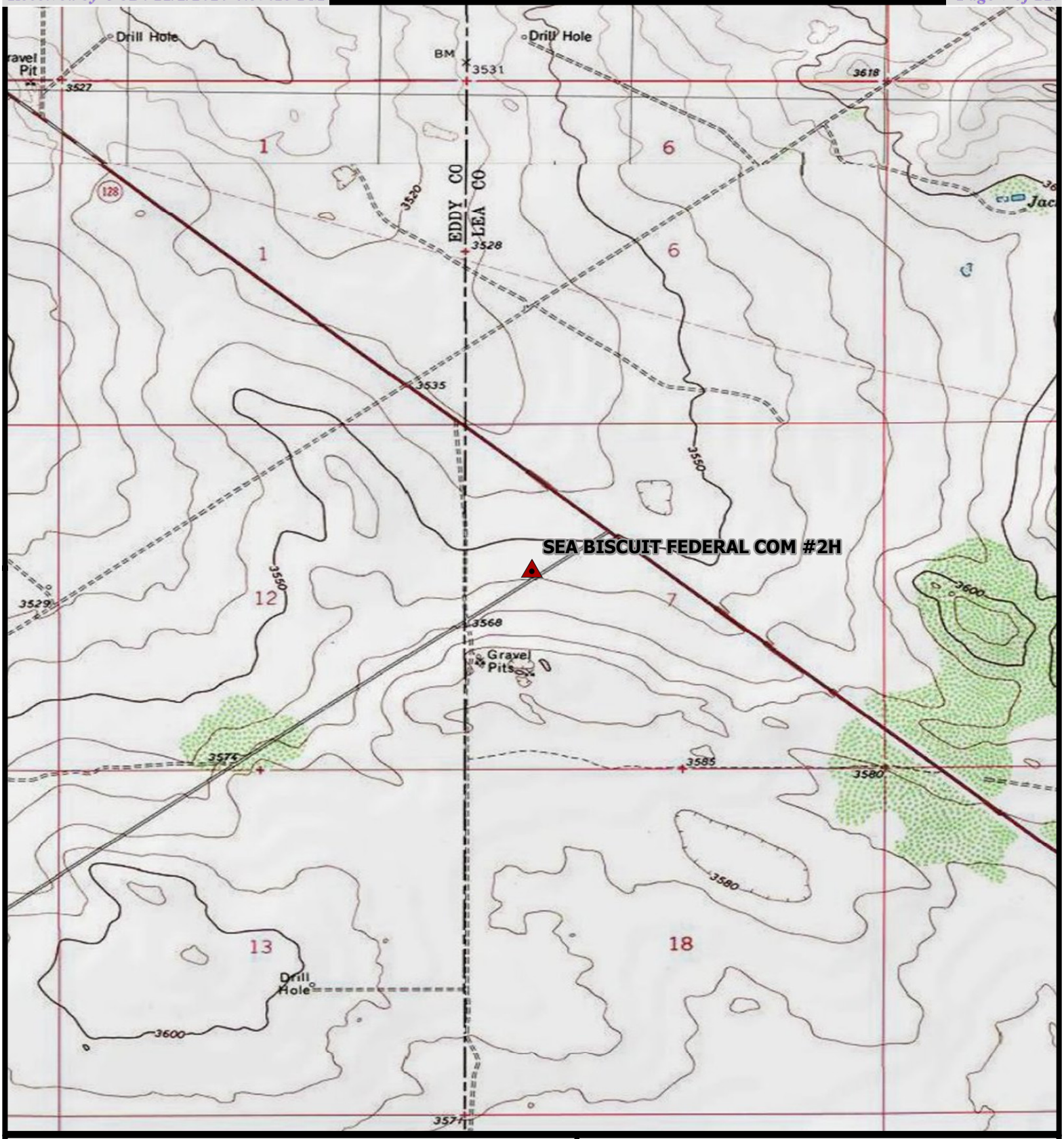
CONCHO

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

Project #: 212C-MD-02226
Date:08/10/2020
Drawn By:MLM

FIGURE 1

Document Path: H:\GIS\CONCHO RESOURCES - COG\212C-MD-02226 SEABISCUIT FEDERAL COM #2H\MXD\212C-MD-02226 SEABISCUIT FEDERAL COM #2H FIG 1.mxd



SITE LOCATION

N
W
E
S

0 1,000 2,000

Approximate Scale in Feet

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

TOPOGRAPHIC MAP
SEA BISCUIT FEDERAL COM #2H
Property Located at coordinates 32.233011°,-103.720220°
LEA COUNTY, NEW MEXICO

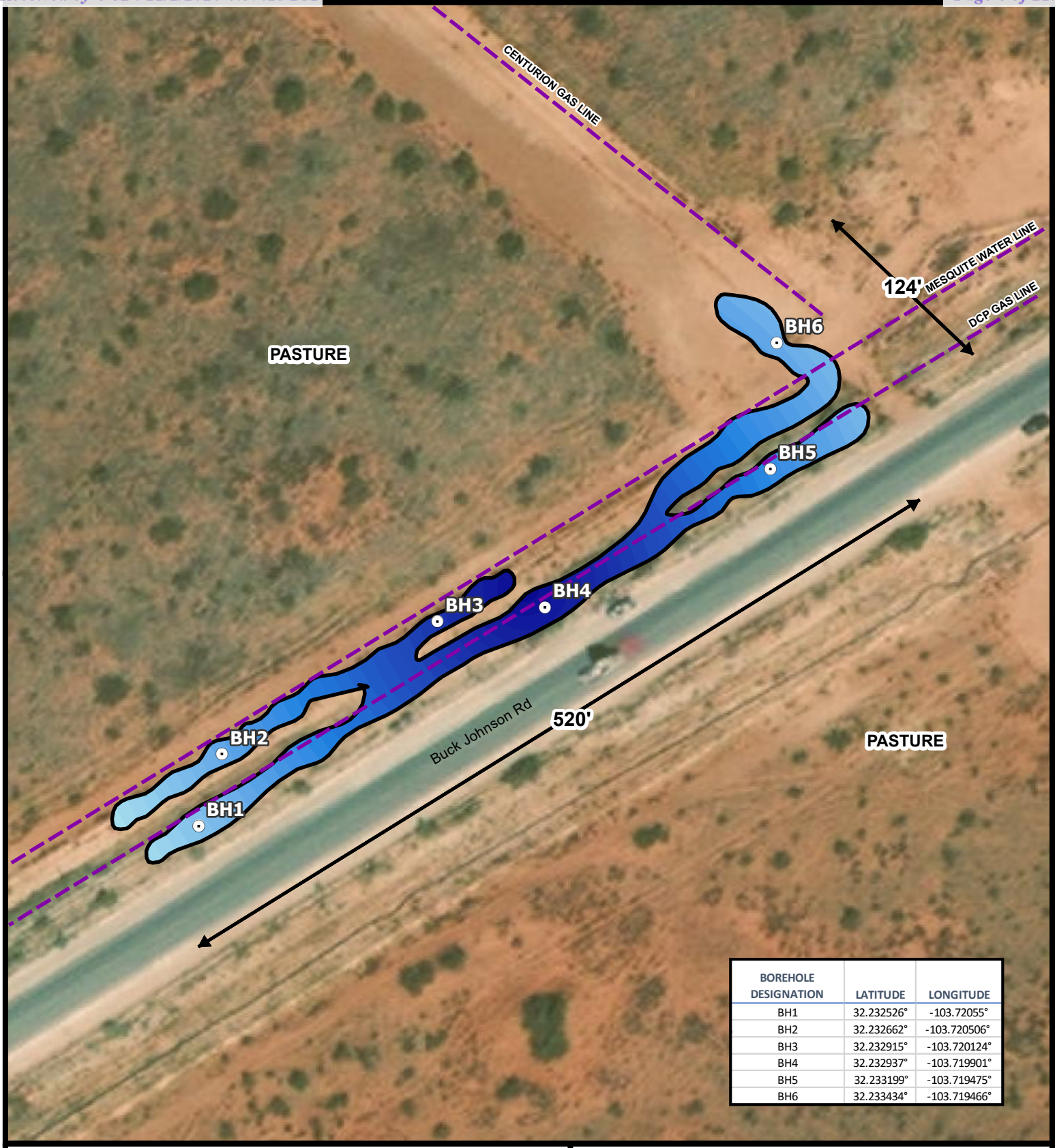
CONCHO

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

Project #: 212C-MD-02226
Date:08/10/2020
Drawn By:MLM

FIGURE
2

Document Path: H:\GIS\CONCHO RESOURCES - COG\212C-MD-02226 SEABISCUIT FEDERAL COM #2H\MXD\212C-MD-02226 SEABISCUIT FEDERAL COM #2H FIG 2.mxd



BOREHOLE DESIGNATION	LATITUDE	LONGITUDE
BH1	32.232526°	-103.72055°
BH2	32.232662°	-103.720506°
BH3	32.232915°	-103.720124°
BH4	32.232937°	-103.719901°
BH5	32.233199°	-103.719475°
BH6	32.233434°	-103.719466°

BOREHOLE SAMPLE LOCATIONS

BURIED PIPELINE

SPILL AREA

N

W E

S

0 45 90

Approximate Scale in Feet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye. Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SPILL ASSESSMENT MAP
SEA BISCUIT FEDERAL COM #2H
Property Located at coordinates 32.233011°,-103.720220°
LEA COUNTY, NEW MEXICO

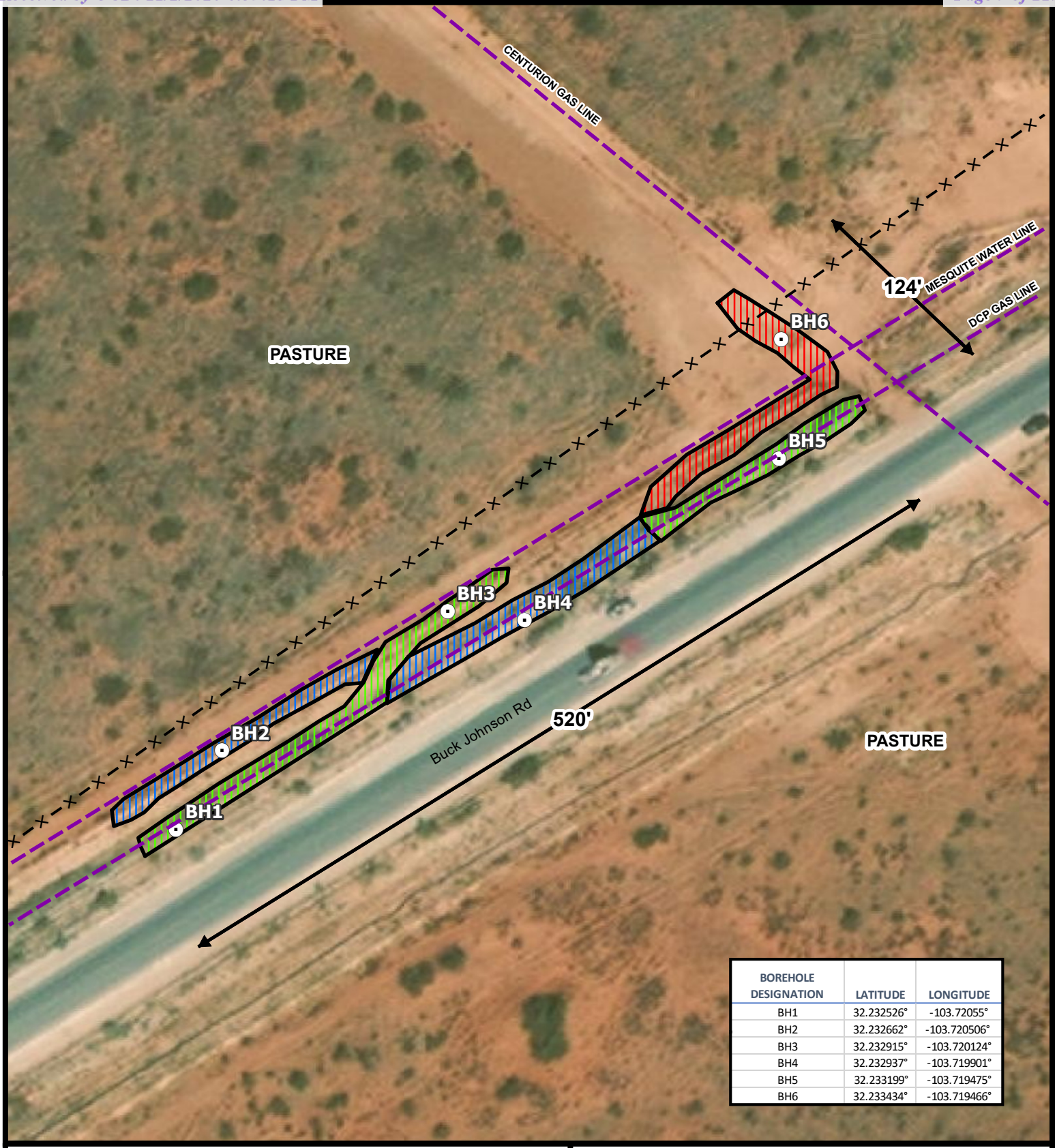
CONCHO

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

Project #: 212C-MD-02226
Date:08/11/2020
Drawn By:MLM

FIGURE 3

Date: 8/11/2020 Document Path: H:\GIS\CONCHO RESOURCES - COG\212C-MD-02226 SEABISCUIT FEDERAL COM #2H\MXD\212C-MD-02226 SEABISCUIT FEDERAL COM #2H FIG. 3.mxd



BOREHOLE DESIGNATION	LATITUDE	LONGITUDE
BH1	32.232526°	-103.72055°
BH2	32.232662°	-103.720506°
BH3	32.232915°	-103.720124°
BH4	32.232937°	-103.719901°
BH5	32.233199°	-103.719475°
BH6	32.233434°	-103.719466°

BOREHOLE SAMPLE LOCATION

FENCLINE

BURIED PIPELINE

1.0' EXCAVATED AREA

4.0' EXCAVATED AREA

6.0' EXCAVATED AREA

N

W E

S

0 45 90

Approximate Scale in Feet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye. Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

EXCAVATION AREA & DEPTH MAP
SEA BISCUIT FEDERAL COM #2H
Property Located at coordinates 32.233011°,-103.720220°
LEA COUNTY, NEW MEXICO

CONCHO

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

Project #: 212C-MD-02226
Date:09/03/2020
Drawn By:MLM

FIGURE 4

Date: 9/3/2020 Document Path: H:\GIS\CONCHO RESOURCES - COG\212C-MD-02226 SEABISCUIT FEDERAL COM #2H\MXD\212C-MD-02226 SEABISCUIT FEDERAL COM #2H FIG 4.mxd

Tables

Table 1
COG
Sea Biscuit Federal Com 002H (5.20.2020)
Eddy County, New Mexico

Sample ID	Sample Date	Sample 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	MRO	Total						
Bore Hole-1	8/6/2020	0-1	X		<50.0	**2410**	**257**	**2670**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**1,090**
	"	2-3	X		<49.9	**218**	57.4	**275**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	215
	"	4-5	X		<49.9	<49.9	<49.9	<49.9	-	-	-	-	-	**20,000**
	"	6-7	X		-	-	-	-	-	-	-	-	-	**11,800**
	"	9-10	X		-	-	-	-	-	-	-	-	-	5,280
	"	14-15	X		-	-	-	-	-	-	-	-	-	598
Bore Hole-2	8/6/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	**7,090**
	"	2-3	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**7,700**
	"	4-5	X		-	-	-	-	-	-	-	-	-	**4,780**
	"	6-7	X		-	-	-	-	-	-	-	-	-	3,950
	"	9-10	X		-	-	-	-	-	-	-	-	-	4,220
	"	14-15	X		-	-	-	-	-	-	-	-	-	3,220
	"	19-20	X		-	-	-	-	-	-	-	-	-	447
	"	24-25	X		-	-	-	-	-	-	-	-	-	332
	"	29-30	X		-	-	-	-	-	-	-	-	-	412
Bore Hole-3	8/6/2020	0-1	X		<49.9	**261**	<49.9	**261**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**5,260**
	"	2-3	X		<50.0	71.0	<50.0	71.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	**6,180**
	"	4-5	X		-	-	-	-	-	-	-	-	-	**27,100**
	"	6-7	X		-	-	-	-	-	-	-	-	-	**17,700**
	"	9-10	X		-	-	-	-	-	-	-	-	-	6,020
	"	14-15	X		-	-	-	-	-	-	-	-	-	359
Bore Hole-4	8/6/2020	0-1	X		<49.9	**420**	67.5	**488**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**5,500**
	"	2-3	X		<49.9	**199**	<49.9	**199**	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	**6,800**
	"	4-5	X		<49.8	<49.8	<49.8	<49.8	-	-	-	-	-	**1,670**
	"	6-7	X		-	-	-	-	-	-	-	-	-	489
	"	9-10	X		-	-	-	-	-	-	-	-	-	779
	"	14-15	X		-	-	-	-	-	-	-	-	-	448
Bore Hole-5	8/6/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**2,530**
	"	2-3	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	**2,310**
	"	4-5	X		-	-	-	-	-	-	-	-	-	**14,800**
	"	6-7	X		-	-	-	-	-	-	-	-	-	**19,100**
	"	9-10	X		-	-	-	-	-	-	-	-	-	5,950
	"	14-15	X		-	-	-	-	-	-	-	-	-	2,560
	"	19-20	X		-	-	-	-	-	-	-	-	-	507
	"	24-25	X		-	-	-	-	-	-	-	-	-	308
Bore Hole-6	8/6/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	**5,390**
	"	2-3	X		-	-	-	-	-	-	-	-	-	330
	"	4-5	X		-	-	-	-	-	-	-	-	-	51.3
	"	6-7	X		-	-	-	-	-	-	-	-	-	64.0

Table 1
COG
Sea Biscuit Federal Com 002H (5.20.2020)
Eddy County, New Mexico

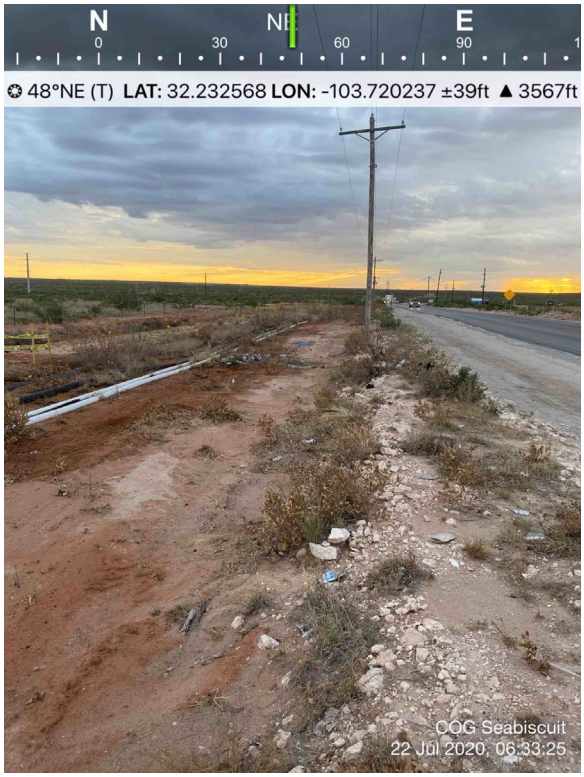
Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
Horizontal-1	8/12/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.3
Horizontal-2	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	18.5
Horizontal-3	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	31.1
Horizontal-4	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	68.2
Horizontal-5	8/12/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	185
Horizontal-6	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	55.4
Horizontal-7	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.6
Horizontal-8	8/12/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.5
Horizontal-9	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.3
Horizontal-10	8/12/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.2
Horizontal-11	8/12/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	33.6

(-) Not Analyzed

Proposed Excavation

Photos

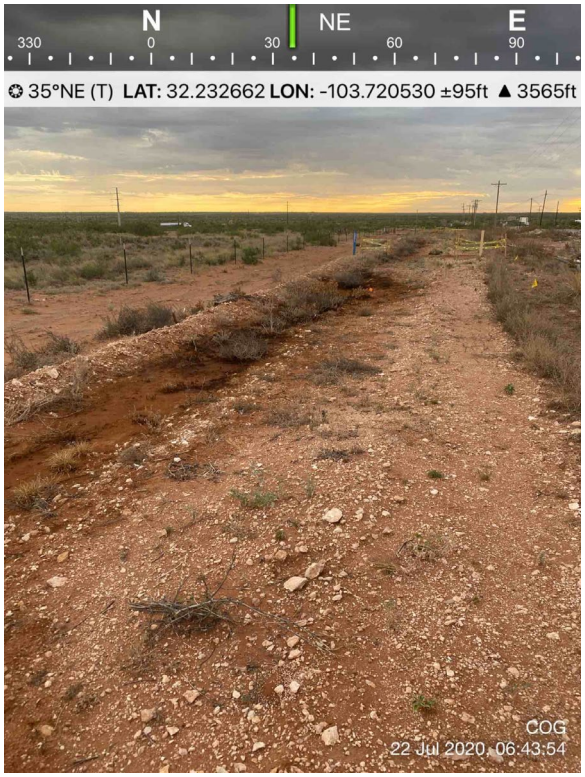
COG
Sea Biscuit Federal Com 002H
(5.20.2020)
Eddy County, New Mexico



View Northeast – Area of release.

View Northeast – Area of release.

COG
Sea Biscuit Federal Com 002H
(5.20.2020)
Eddy County, New Mexico



View Northeast – Area of release.

View Northwest – Area of release.

COG
Sea Biscuit Federal Com 002H
(5.20.2020)
Eddy County, New Mexico

View Southwest – Area of release.

View West – Area of release.

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		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Location of spill: COG -Seabiscuit Federal Com 2H **Date of Spill:** 2-May-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:** X

Input Data:

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

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	550 ft		20 ft	X	4.50 in	0%
Rectangle Area #2	0 ft	X	0 0	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 #5	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 #8	0 ft	X	0 ft	X	0 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 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 #5	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 #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: **11,000 sq. ft.** **4,125 cu. ft.** **cu. ft.**

Total Free Liquid Volume: **sq. ft.** **cu. ft.** **cu. ft.**

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	102.9 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	**102.9 BBL**	**0.0 BBL**
Total Liquid Spill Liquid:	**102.9 BBL**	**0.00 BBL**

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	**0.0** BBL	**0.0** BBL

Estimated Surface Damage

Surface Area: 11,000 sq. ft.

Surface Area: .2525 acre

Recovered Volumes

Estimated oil recovered: **BBL** check - okay

Estimated water recovered: **BBL** check - okay

Estimated Weights, and Volumes

Saturated Soil =	462,000 lbs	4,125 cu. ft.	153 cu. yds.
Total Liquid =	103 BBL	4,320 gallon	35,940 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	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Ike Tavarez Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: Ike Tavarez _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

SCARBOROUGH DRILLING, INC.
TEST HOLES • WATER WELLS
P.O. Box 305 - Ph. 806-872-3285 or 872-9349
LAMESA, TEXAS 79331
2001 South Hwy. 87

WELL LOG

From	To	FORMATION
0	4	Brown Top Soil
4	5	Caliche
5	12	Red Sand
12	20	Red Sand w/ Caliche layers
20	30	Caliche w Red Sand
30	55	Red Shale w/ Caliche
		BHI
		COG - Seabiscuit
		Federal Com 2H & 4H
		Plugged w/ Hole Plug
		32.233386 -103.719410

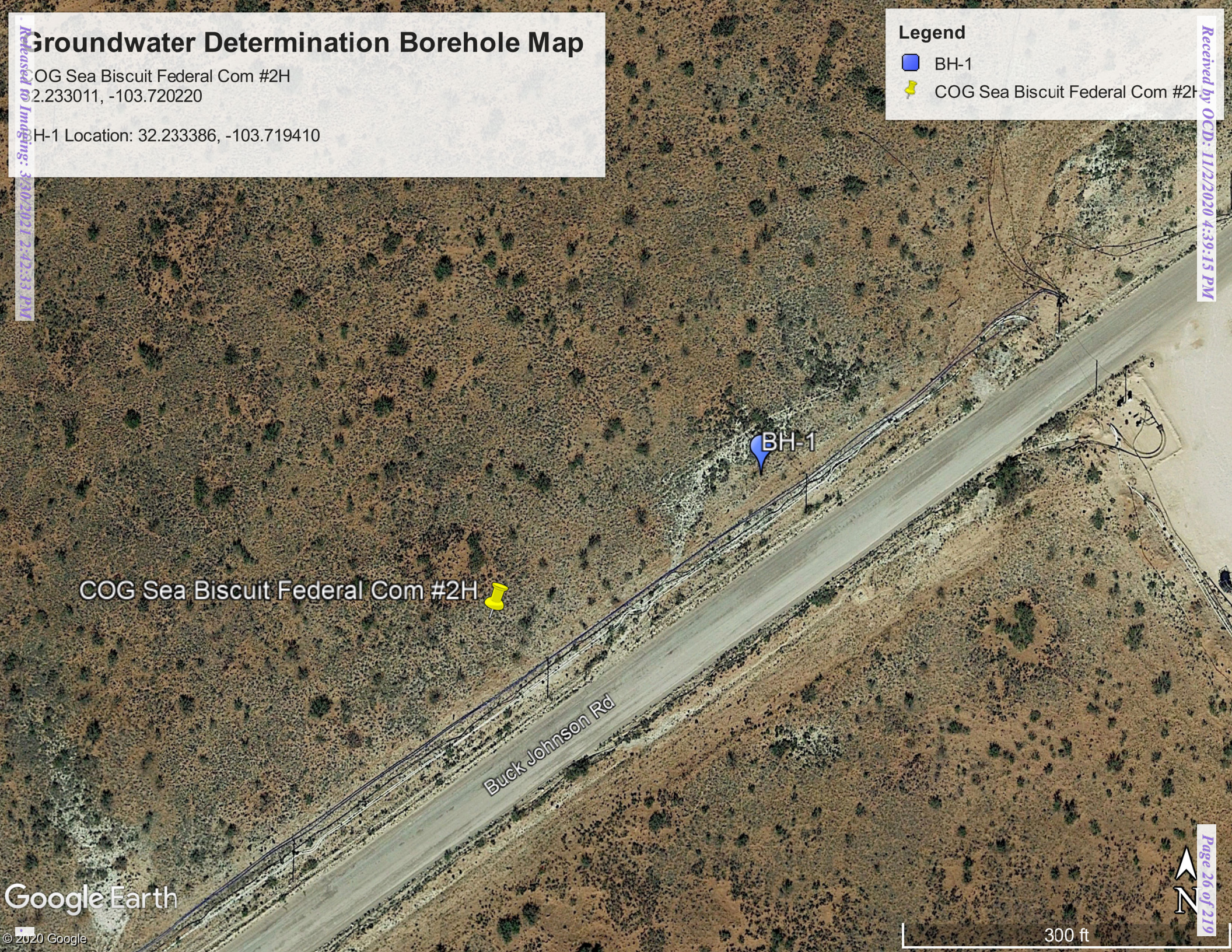
Date 8-5-20 Driller Lee Scarbrough

GIBBS PRINTING CO. LAMESA, TX

Groundwater Determination Borehole Map

COG Sea Biscuit Federal Com #2H
32.233011, -103.720220

BH-1 Location: 32.233386, -103.719410



USGS
science for a changing world

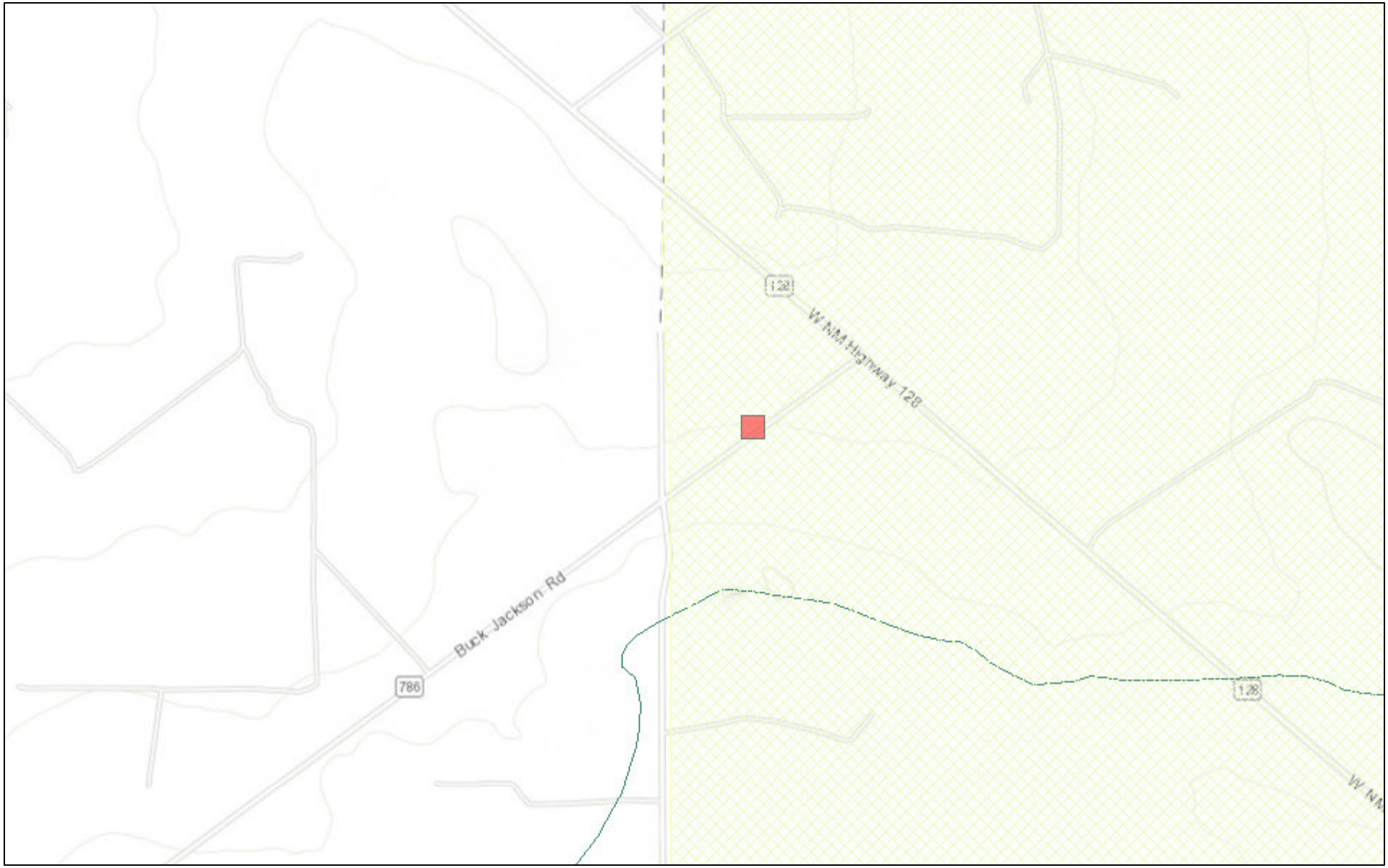
USGS Home
Contact USGS
Search USGS

National Water Information System: Mapper

Help

Site Information

New Mexico NFHL Data



June 11, 2020

1:18,056

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

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

nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

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

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

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

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	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	622709	3569231	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

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

Groundwater | 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 =
- 321312103395601

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

USGS 321312103395601 24S.32E.10.344333

Lea County, New Mexico
Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83
Land-surface elevation 3,589.00 feet above NGVD29
The depth of the well is 60 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

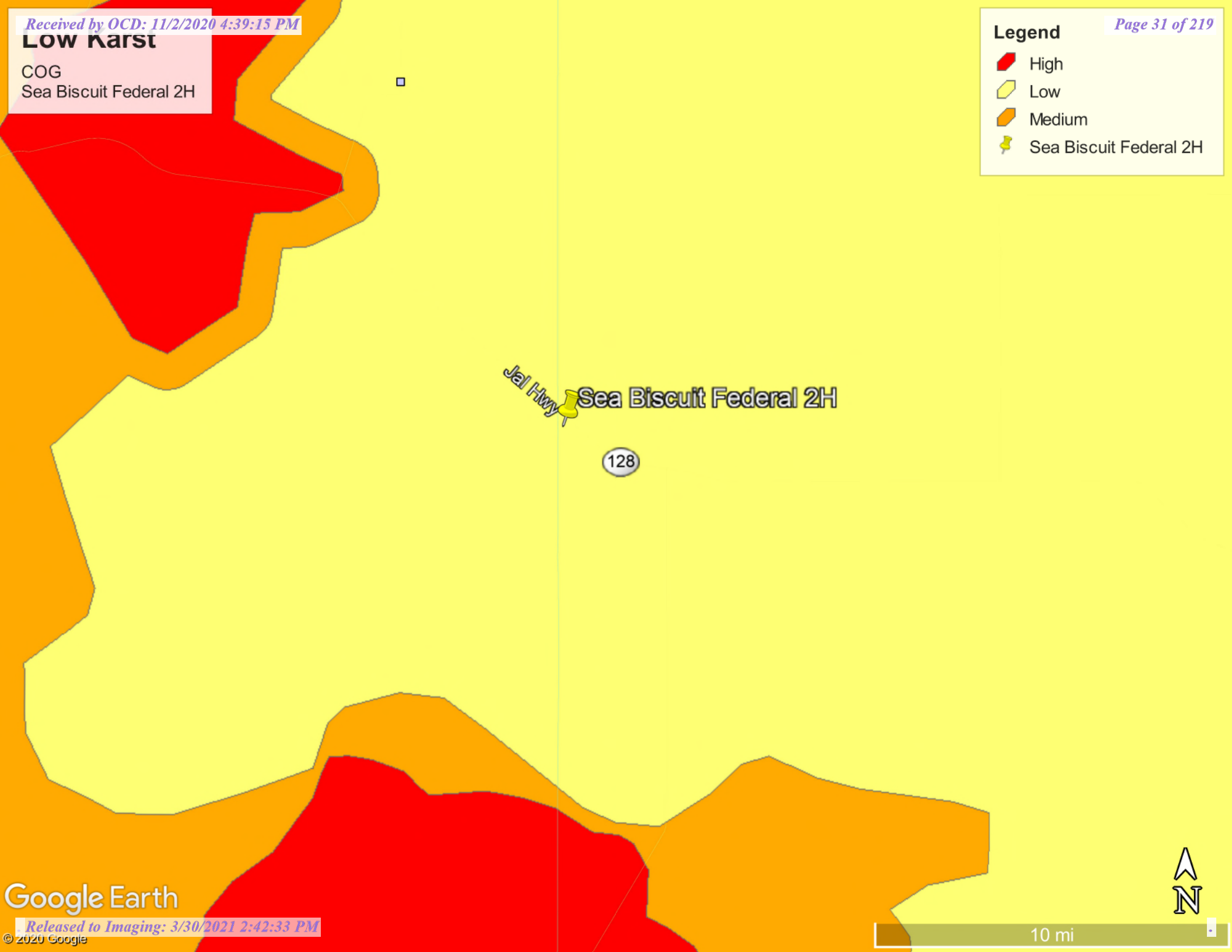
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1950-04-13		D	33.64			2		U		U	A
1955-06-03		D	31.90			2	R	U		U	A
1976-01-22		D	31.80			2		U		U	A
1981-03-20		D	19.93			2		U		U	A
1986-03-18		D	37.16			2		U		U	A
1991-05-29		D	39.64			2		U		U	A
1996-03-14		D	38.20			2		S		U	A
2001-02-27		D	36.58			2		S		U	A
2006-02-07	09:30 MST	m	19.40			2		S	USGS	S	A
2010-12-16	15:30 MST	m	33.96			2		S	USGS	S	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
Status	R	Site had been pumped recently.
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	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Low Karst

COG
Sea Biscuit Federal 2H



Water Well Data
Average Depth to Groundwater (ft)
COG - Sea Biscuit Federal 2H

23 South 31 East

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

Maljamar

23 South 32 East

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

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 31 East

6	5	4	3	2 205 160	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	33 474	34	35	36

24 South 32 East

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

24 South 33 East

6	5	4	3	2	1
7	8	9	10 20 22	11	12
18	17	16	15	14	13
19	20	21	22	23 208	24 16.9
30	29	28	27	26	25
31	32	33 70 93.2	34	35	36

25 South 31 East

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

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	32 290	33	34	35	36

25 South 33 East

6	5 118	4	3 172	2	1
7	8	9	10	11 140	12 200
18	17	16	15	14	13 185
19	20 200	21 120	22	23	24
30	29	28	27 125	26 110	25
31 190	32	33	34	35	36

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

Appendix C

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-001		666260-002		666260-003		666260-004		666260-005		666260-006	
	Field Id:	Trench 1 (0-1')		Trench 1 (1')		Trench 1 (2')		Trench 1 (3')		Trench 1 (4')		Trench 1 (5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	** ** ** **											
	Analyzed:	07.03.2020 05:57											
	Units/RL:	mg/kg	RL										
Benzene		<0.00199	0.00199										
Toluene		<0.00199	0.00199										
Ethylbenzene		<0.00199	0.00199										
m,p-Xylenes		<0.00398	0.00398										
o-Xylene		<0.00199	0.00199										
Total Xylenes		<0.00199	0.00199										
Total BTEX		<0.00199	0.00199										
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35	
	Analyzed:	07.06.2020 17:58		07.06.2020 18:04		07.06.2020 18:10		07.06.2020 18:28		07.06.2020 18:34		07.06.2020 18:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3280	25.0	4460	25.3	2530	24.8	5980	50.0	7930	49.8	23100	251
TPH by SW8015 Mod	***Extracted:***	07.03.2020 10:00		07.08.2020 16:30									
	Analyzed:	07.03.2020 17:34		07.09.2020 07:07									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	169	49.9								
Diesel Range Organics (DRO)		470 X	50.0	1230	49.9								
Motor Oil Range Hydrocarbons (MRO)		58.3	50.0	179	49.9								
Total TPH		528	50.0	1580	49.9								

BRL - Below Reporting Limit

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

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

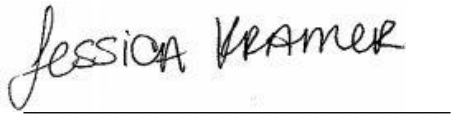
Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-007		666260-008		666260-009		666260-010		666260-011		666260-012	
	Field Id:	Trench 1 (6')		Trench 2 (0-1')		Trench 2 (1')		Trench 2 (2')		Trench 2 (3')		Trench 2 (4')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***			** ** ** **									
	Analyzed:			07.03.2020 06:18									
	Units/RL:			mg/kg	RL								
Benzene				<0.00199	0.00199								
Toluene				<0.00199	0.00199								
Ethylbenzene				<0.00199	0.00199								
m,p-Xylenes				<0.00398	0.00398								
o-Xylene				<0.00199	0.00199								
Total Xylenes				<0.00199	0.00199								
Total BTEX				<0.00199	0.00199								
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35	
	Analyzed:	07.06.2020 18:45		07.06.2020 18:51		07.06.2020 19:15		07.06.2020 19:20		07.06.2020 19:38		07.06.2020 19:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6100	49.6	6990	49.5	2640	25.0	7080	50.4	9940	49.8	22700	248
TPH by SW8015 Mod	***Extracted:***			07.03.2020 10:00									
	Analyzed:			07.03.2020 18:30									
	Units/RL:			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

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



eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-013		666260-014		666260-015		666260-016		666260-017		666260-018	
	Field Id:	Trench 4 (0-1')		Trench 4 (1')		Trench 4 (2')		Trench 4 (3')		Trench 4 (4')		Trench 6 (0-1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	** ** ** **										** ** ** **	
	Analyzed:	07.03.2020 06:38										07.03.2020 06:59	
	Units/RL:	mg/kg	RL									mg/kg	RL
Benzene		<0.00200	0.00200									<0.00200	0.00200
Toluene		<0.00200	0.00200									<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200									<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400									<0.00400	0.00400
o-Xylene		<0.00200	0.00200									<0.00200	0.00200
Total Xylenes		<0.00200	0.00200									<0.00200	0.00200
Total BTEX		<0.00200	0.00200									<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 16:00	
	Analyzed:	07.06.2020 19:50		07.06.2020 19:56		07.06.2020 20:01		07.06.2020 20:07		07.06.2020 20:13		07.06.2020 16:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6180	50.5	6160	50.5	6530	50.5	6050	49.8	37300	250	8590	49.6
TPH by SW8015 Mod	***Extracted:***	07.03.2020 10:00										07.03.2020 10:00	
	Analyzed:	07.03.2020 18:49										07.03.2020 19:08	
	Units/RL:	mg/kg	RL									mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0									<49.9	49.9
Diesel Range Organics (DRO)		84.2	50.0									<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0									<49.9	49.9
Total TPH		84.2	50.0									<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested		666260-019		666260-020		666260-021		666260-022		666260-023		666260-024	
	Lab Id:	666260-019		666260-020		666260-021		666260-022		666260-023		666260-024	
	Field Id:	Trench 6 (1')		Trench 6 (2')		Trench 6 (3')		Trench 6 (4')		Trench 8 (0-1')		Trench 8 (1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***									** ** ** **			
	Analyzed:									07.03.2020 07:19			
	Units/RL:									mg/kg	RL		
Benzene										<0.00201	0.00201		
Toluene										<0.00201	0.00201		
Ethylbenzene										<0.00201	0.00201		
m,p-Xylenes										<0.00402	0.00402		
o-Xylene										<0.00201	0.00201		
Total Xylenes										<0.00201	0.00201		
Total BTEX										<0.00201	0.00201		
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 16:54		07.06.2020 17:00		07.06.2020 17:06		07.06.2020 17:25		07.06.2020 17:32		07.06.2020 17:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5460	49.9	5770	50.2	9560	50.5	8400	50.5	2780	24.9	683	4.99
TPH by SW8015 Mod	***Extracted:***									07.03.2020 10:00		07.08.2020 16:30	
	Analyzed:									07.03.2020 19:26		07.09.2020 07:26	
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)										343	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)										59.5	50.0	<49.9	49.9
Total TPH										403	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-025		666260-026		666260-027		666260-028		666260-029		666260-030	
	Field Id:	Trench 8 (2')		Trench 8 (3')		Trench 8 (4')		Trench 8 (5')		Trench 8 (6')		Trench 8 (7')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 17:44		07.06.2020 17:51		07.06.2020 18:16		07.06.2020 18:23		07.06.2020 18:42		07.06.2020 18:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		791	4.95	1880	25.1	8900	50.0	22400	250	16200	99.4	22000	248

BRL - Below Reporting Limit

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

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-031		666260-032		666260-033		666260-034		666260-035		666260-036	
	Field Id:	Trench 8 (8')		Trench 8 (9')		Trench 8 (10')		Trench 9 (0-1')		Trench 9 (1')		Trench 9 (2')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							07.02.2020 17:00					
	Analyzed:							07.03.2020 07:40					
	Units/RL:							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	***Extracted:***	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 18:54		07.06.2020 19:01		07.06.2020 19:07		07.06.2020 19:13		07.06.2020 19:20		07.06.2020 16:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		23100	252	23000	248	27200	248	514	5.03	73.6	4.97	98.2	5.00
TPH by SW8015 Mod	***Extracted:***							07.03.2020 10:00		07.08.2020 16:30			
	Analyzed:							07.03.2020 19:45		07.09.2020 07:44			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)								246	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)								50.6	49.8	<49.9	49.9		
Total TPH								297	49.8	<49.9	49.9		

BRL - Below Reporting Limit

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

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-037		666260-038		666260-039		666260-040		666260-041		666260-042	
	Field Id:	Trench 9 (3')		Trench 9 (4')		Trench 9 (5')		Trench 9 (6')		Trench 9 (7')		Trench 9 (8')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30	
	Analyzed:	07.06.2020 17:57		07.06.2020 20:17		07.06.2020 20:23		07.06.2020 20:30		07.06.2020 20:36		07.06.2020 20:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		562 X	5.04	21400	253	25800	250	19800	248	23800	252	15900	249

BRL - Below Reporting Limit

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

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	666260-043		666260-044					
	Field Id:	Trench 9 (9')		Trench 9 (10')					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	07.02.2020 00:00		07.02.2020 00:00					
Chloride by EPA 300	***Extracted:***	07.06.2020 16:30		07.06.2020 16:30					
	Analyzed:	07.06.2020 21:01		07.06.2020 21:08					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		16400	100	14900	99.4				

BRL - Below Reporting Limit

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

eurofins | Xenco

Analytical Report 666260

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Sea Biscuit (5.20.20)

212C-MD-02226

07.09.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Xenco

07.09.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **666260**
Sea Biscuit (5.20.20)
Project Address: Lea Co, NM

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) 666260. 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. 666260 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Trench 1 (0-1')	S	07.02.2020 00:00		666260-001
Trench 1 (1')	S	07.02.2020 00:00		666260-002
Trench 1 (2')	S	07.02.2020 00:00		666260-003
Trench 1 (3')	S	07.02.2020 00:00		666260-004
Trench 1 (4')	S	07.02.2020 00:00		666260-005
Trench 1 (5')	S	07.02.2020 00:00		666260-006
Trench 1 (6')	S	07.02.2020 00:00		666260-007
Trench 2 (0-1')	S	07.02.2020 00:00		666260-008
Trench 2 (1')	S	07.02.2020 00:00		666260-009
Trench 2 (2')	S	07.02.2020 00:00		666260-010
Trench 2 (3')	S	07.02.2020 00:00		666260-011
Trench 2 (4')	S	07.02.2020 00:00		666260-012
Trench 4 (0-1')	S	07.02.2020 00:00		666260-013
Trench 4 (1')	S	07.02.2020 00:00		666260-014
Trench 4 (2')	S	07.02.2020 00:00		666260-015
Trench 4 (3')	S	07.02.2020 00:00		666260-016
Trench 4 (4')	S	07.02.2020 00:00		666260-017
Trench 6 (0-1')	S	07.02.2020 00:00		666260-018
Trench 6 (1')	S	07.02.2020 00:00		666260-019
Trench 6 (2')	S	07.02.2020 00:00		666260-020
Trench 6 (3')	S	07.02.2020 00:00		666260-021
Trench 6 (4')	S	07.02.2020 00:00		666260-022
Trench 8 (0-1')	S	07.02.2020 00:00		666260-023
Trench 8 (1')	S	07.02.2020 00:00		666260-024
Trench 8 (2')	S	07.02.2020 00:00		666260-025
Trench 8 (3')	S	07.02.2020 00:00		666260-026
Trench 8 (4')	S	07.02.2020 00:00		666260-027
Trench 8 (5')	S	07.02.2020 00:00		666260-028
Trench 8 (6')	S	07.02.2020 00:00		666260-029
Trench 8 (7')	S	07.02.2020 00:00		666260-030
Trench 8 (8')	S	07.02.2020 00:00		666260-031
Trench 8 (9')	S	07.02.2020 00:00		666260-032
Trench 8 (10')	S	07.02.2020 00:00		666260-033
Trench 9 (0-1')	S	07.02.2020 00:00		666260-034
Trench 9 (1')	S	07.02.2020 00:00		666260-035
Trench 9 (2')	S	07.02.2020 00:00		666260-036
Trench 9 (3')	S	07.02.2020 00:00		666260-037
Trench 9 (4')	S	07.02.2020 00:00		666260-038
Trench 9 (5')	S	07.02.2020 00:00		666260-039
Trench 9 (6')	S	07.02.2020 00:00		666260-040
Trench 9 (7')	S	07.02.2020 00:00		666260-041
Trench 9 (8')	S	07.02.2020 00:00		666260-042
Trench 9 (9')	S	07.02.2020 00:00		666260-043

eurofins | Xenco

Sample Cross Reference 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Trench 9 (10')	S	07.02.2020 00:00	666260-044

eurofins | Xenco

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Sea Biscuit (5.20.20)

Project ID: *212C-MD-02226*
Work Order Number(s): *666260*

Report Date: *07.09.2020*
Date Received: *07.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3130738 BTEX by EPA 8021B

Middle and closing CCVs failed high on benzene indicating potential high bias on data for that analyte; only non-detect benzene samples were reported.

Batch: LBA-3130741 TPH by SW8015 Mod

Lab Sample ID 666260-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) 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: 666260-001, -008, -013, -018, -023, -034.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3130868 Chloride by EPA 300

Lab Sample ID 666260-037 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 666260-018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037.

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

Batch: LBA-3131136 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 666260-002.

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 1 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-001 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3280**	25.0	mg/kg	07.06.2020 17:58		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 17:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**470**	50.0	mg/kg	07.03.2020 17:34	X	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**58.3**	50.0	mg/kg	07.03.2020 17:34		1
Total TPH	PHC635	**528**	50.0	mg/kg	07.03.2020 17:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.03.2020 17:34	
o-Terphenyl	84-15-1	113	%	70-130	07.03.2020 17:34	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-001	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.03.2020 05:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.03.2020 05:57	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.03.2020 05:57	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 1 (1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-002 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4460**	25.3	mg/kg	07.06.2020 18:04		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.08.2020 16:30 Basis: Wet Weight

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**169**	49.9	mg/kg	07.09.2020 07:07		1
Diesel Range Organics (DRO)	C10C28DRO	**1230**	49.9	mg/kg	07.09.2020 07:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**179**	49.9	mg/kg	07.09.2020 07:07		1
Total TPH	PHC635	**1580**	49.9	mg/kg	07.09.2020 07:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	07.09.2020 07:07	
o-Terphenyl	84-15-1	139	%	70-130	07.09.2020 07:07	**

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-003	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2530**	24.8	mg/kg	07.06.2020 18:10		5

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-004	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5980**	50.0	mg/kg	07.06.2020 18:28		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-005	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7930**	49.8	mg/kg	07.06.2020 18:34		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-006	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23100**	251	mg/kg	07.06.2020 18:39		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-007	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6100**	49.6	mg/kg	07.06.2020 18:45		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 2 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-008 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6990**	49.5	mg/kg	07.06.2020 18:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.03.2020 18:30	
o-Terphenyl	84-15-1	105	%	70-130	07.03.2020 18:30	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-008	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.03.2020 06:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.03.2020 06:18	
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.03.2020 06:18	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-009	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2640**	25.0	mg/kg	07.06.2020 19:15		5

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-010	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7080**	50.4	mg/kg	07.06.2020 19:20		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-011	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9940**	49.8	mg/kg	07.06.2020 19:38		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-012	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22700**	248	mg/kg	07.06.2020 19:44		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 4 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-013 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6180**	50.5	mg/kg	07.06.2020 19:50		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 18:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**84.2**	50.0	mg/kg	07.03.2020 18:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.03.2020 18:49	U	1
Total TPH	PHC635	**84.2**	50.0	mg/kg	07.03.2020 18:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 18:49	
o-Terphenyl	84-15-1	104	%	70-130	07.03.2020 18:49	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-013	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.03.2020 06:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.03.2020 06:38	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.03.2020 06:38	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-014	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6160**	50.5	mg/kg	07.06.2020 19:56		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-015	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6530**	50.5	mg/kg	07.06.2020 20:01		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-016	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6050**	49.8	mg/kg	07.06.2020 20:07		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-017	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37300**	250	mg/kg	07.06.2020 20:13		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 6 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-018 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8590**	49.6	mg/kg	07.06.2020 16:47		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.03.2020 19:08	
o-Terphenyl	84-15-1	104	%	70-130	07.03.2020 19:08	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-018	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.03.2020 06:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.03.2020 06:59	
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.03.2020 06:59	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-019	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5460**	49.9	mg/kg	07.06.2020 16:54		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-020	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5770**	50.2	mg/kg	07.06.2020 17:00		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-021	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9560**	50.5	mg/kg	07.06.2020 17:06		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-022	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8400**	50.5	mg/kg	07.06.2020 17:25		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 8 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-023 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2780**	24.9	mg/kg	07.06.2020 17:32		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 19:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	**343**	50.0	mg/kg	07.03.2020 19:26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**59.5**	50.0	mg/kg	07.03.2020 19:26		1
Total TPH	PHC635	**403**	50.0	mg/kg	07.03.2020 19:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 19:26	
o-Terphenyl	84-15-1	116	%	70-130	07.03.2020 19:26	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-023	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.03.2020 07:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	07.03.2020 07:19	
1,4-Difluorobenzene	540-36-3	104	%	70-130	07.03.2020 07:19	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 8 (1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-024 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**683**	4.99	mg/kg	07.06.2020 17:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.08.2020 16:30 Basis: Wet Weight

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.09.2020 07:26	
o-Terphenyl	84-15-1	122	%	70-130	07.09.2020 07:26	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-025	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**791**	4.95	mg/kg	07.06.2020 17:44		1

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-026	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1880**	25.1	mg/kg	07.06.2020 17:51		5

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-027	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8900**	50.0	mg/kg	07.06.2020 18:16		10

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-028	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22400**	250	mg/kg	07.06.2020 18:23		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-029	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16200**	99.4	mg/kg	07.06.2020 18:42		20

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (7')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-030	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22000**	248	mg/kg	07.06.2020 18:48		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (8')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-031	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23100**	252	mg/kg	07.06.2020 18:54		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (9')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-032	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23000**	248	mg/kg	07.06.2020 19:01		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (10')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-033	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27200**	248	mg/kg	07.06.2020 19:07		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 9 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-034 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**514**	5.03	mg/kg	07.06.2020 19:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.03.2020 19:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**246**	49.8	mg/kg	07.03.2020 19:45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**50.6**	49.8	mg/kg	07.03.2020 19:45		1
Total TPH	PHC635	**297**	49.8	mg/kg	07.03.2020 19:45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 19:45	
o-Terphenyl	84-15-1	109	%	70-130	07.03.2020 19:45	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-034	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	07.02.2020 17:00	Basis:	Wet Weight
Seq Number:	3130738				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.03.2020 07:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	07.03.2020 07:40	
1,4-Difluorobenzene	540-36-3	88	%	70-130	07.03.2020 07:40	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 9 (1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-035 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**73.6**	4.97	mg/kg	07.06.2020 19:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.08.2020 16:30 Basis: Wet Weight

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	07.09.2020 07:44	
o-Terphenyl	84-15-1	118	%	70-130	07.09.2020 07:44	

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-036	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**98.2**	5.00	mg/kg	07.06.2020 16:28		1

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-037	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**562**	5.04	mg/kg	07.06.2020 17:57	X	1

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-038	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21400**	253	mg/kg	07.06.2020 20:17		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-039	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25800**	250	mg/kg	07.06.2020 20:23		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-040	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19800**	248	mg/kg	07.06.2020 20:30		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (7')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-041	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23800**	252	mg/kg	07.06.2020 20:36		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (8')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-042	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15900**	249	mg/kg	07.06.2020 20:55		50

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (9')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-043	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16400**	100	mg/kg	07.06.2020 21:01		20

eurofins | Xenco

Certificate of Analytical Results 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (10')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-044	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14900**	99.4	mg/kg	07.06.2020 21:08		20

eurofins | Xenco

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706805-1-BLK — LCS Sample Id: 7706805-1-BKS — LCSD Sample Id: 7706805-1-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	243	97	245	98	90-110	1	20	mg/kg	07.06.2020 17:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706806-1-BLK — LCS Sample Id: 7706806-1-BKS — LCSD Sample Id: 7706806-1-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	242	97	242	97	90-110	0	20	mg/kg	07.06.2020 16:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706807-1-BLK — LCS Sample Id: 7706807-1-BKS — LCSD Sample Id: 7706807-1-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	236	94	236	94	90-110	0	20	mg/kg	07.06.2020 19:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
Parent Sample Id: 666308-001 — MS Sample Id: 666308-001 S — MSD Sample Id: 666308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.8	248	258	98	259	99	90-110	0	20	mg/kg	07.06.2020 17:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
Parent Sample Id: 666309-001 — MS Sample Id: 666309-001 S — MSD Sample Id: 666309-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	260	249	496	95	501	97	90-110	1	20	mg/kg	07.06.2020 19:03	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666260-036 — MS Sample Id: 666260-036 S — MSD Sample Id: 666260-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	98.2	250	347	100	347	100	90-110	0	20	mg/kg	07.06.2020 16:35	

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

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

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666260-037 — MS Sample Id: 666260-037 S — MSD Sample Id: 666260-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	562	252	778	86	781	87	90-110	0	20	mg/kg	07.06.2020 18:04	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666164-050 — MS Sample Id: 666164-050 S — MSD Sample Id: 666164-050 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	295	252	551	102	540	97	90-110	2	20	mg/kg	07.06.2020 20:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666164-052 — MS Sample Id: 666164-052 S — MSD Sample Id: 666164-052 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	224	250	470	98	466	97	90-110	1	20	mg/kg	07.06.2020 21:33	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3130741 — Matrix: Solid — Date Prep: 07.03.2020
MB Sample Id: 7706721-1-BLK — LCS Sample Id: 7706721-1-BKS — LCSD Sample Id: 7706721-1-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	1080	108	923	92	70-130	16	20	mg/kg	07.03.2020 16:56	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	961	96	70-130	18	20	mg/kg	07.03.2020 16:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		128		123		70-130	%	07.03.2020 16:56
o-Terphenyl	100		130		114		70-130	%	07.03.2020 16:56

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131136 — Matrix: Solid — Date Prep: 07.08.2020
MB Sample Id: 7706973-1-BLK — LCS Sample Id: 7706973-1-BKS — LCSD Sample Id: 7706973-1-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	1090	109	1100	110	70-130	1	20	mg/kg	07.09.2020 01:13	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1110	111	70-130	0	20	mg/kg	07.09.2020 01:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		126		127		70-130	%	07.09.2020 01:13
o-Terphenyl	115		120		121		70-130	%	07.09.2020 01:13

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

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

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3130741 Matrix: Solid Date Prep: 07.03.2020
MB Sample Id: 7706721-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.03.2020 16:38	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131136 Matrix: Solid Date Prep: 07.08.2020
MB Sample Id: 7706973-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.09.2020 00:54	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3130741 Matrix: Soil Date Prep: 07.03.2020
Parent Sample Id: 666260-001 MS Sample Id: 666260-001 S MSD Sample Id: 666260-001 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	997	928	93	978	98	70-130	5	20	mg/kg	07.03.2020 17:53	
Diesel Range Organics (DRO)	470	997	967	50	977	51	70-130	1	20	mg/kg	07.03.2020 17:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		113		70-130	%	07.03.2020 17:53
o-Terphenyl	112		113		70-130	%	07.03.2020 17:53

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131136 Matrix: Soil Date Prep: 07.08.2020
Parent Sample Id: 666538-001 MS Sample Id: 666538-001 S MSD Sample Id: 666538-001 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)	<49.8	996	975	98	954	95	70-130	2	20	mg/kg	07.09.2020 02:10	
Diesel Range Organics (DRO)	<49.8	996	997	100	987	99	70-130	1	20	mg/kg	07.09.2020 02:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		125		70-130	%	07.09.2020 02:10
o-Terphenyl	120		117		70-130	%	07.09.2020 02:10

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

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

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130755 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706740-1-BLK — LCS Sample Id: 7706740-1-BKS — LCSD Sample Id: 7706740-1-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	0.101	101	70-130	3	35	mg/kg	07.02.2020 22:27	
Toluene	<0.00200	0.100	0.0995	100	0.101	101	70-130	1	35	mg/kg	07.02.2020 22:27	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0989	99	70-130	3	35	mg/kg	07.02.2020 22:27	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.189	95	70-130	4	35	mg/kg	07.02.2020 22:27	
o-Xylene	<0.00200	0.100	0.0943	94	0.0975	98	70-130	3	35	mg/kg	07.02.2020 22:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		98		96		70-130	%	07.02.2020 22:27
4-Bromofluorobenzene	96		89		94		70-130	%	07.02.2020 22:27

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130738 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706727-1-BLK — LCS Sample Id: 7706727-1-BKS — LCSD Sample Id: 7706727-1-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	0.107	107	0.106	106	70-130	1	35	mg/kg	07.03.2020 04:38	
Toluene	<0.00200	0.100	0.103	103	0.102	102	70-130	1	35	mg/kg	07.03.2020 04:38	
Ethylbenzene	<0.00200	0.100	0.108	108	0.107	107	70-130	1	35	mg/kg	07.03.2020 04:38	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.211	106	70-130	1	35	mg/kg	07.03.2020 04:38	
o-Xylene	<0.00200	0.100	0.111	111	0.109	109	70-130	2	35	mg/kg	07.03.2020 04:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		93		92		70-130	%	07.03.2020 04:38
4-Bromofluorobenzene	121		120		121		70-130	%	07.03.2020 04:38

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130755 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 665975-007 — MS Sample Id: 665975-007 S — MSD Sample Id: 665975-007 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	0.0561	56	0.0378	45	70-130	39	35	mg/kg	07.02.2020 23:08	XF
Toluene	<0.00200	0.100	0.0403	40	0.0262	31	70-130	42	35	mg/kg	07.02.2020 23:08	XF
Ethylbenzene	<0.00200	0.100	0.0323	32	0.0198	24	70-130	48	35	mg/kg	07.02.2020 23:08	XF
m,p-Xylenes	<0.00401	0.200	0.0637	32	0.0380	23	70-130	51	35	mg/kg	07.02.2020 23:08	XF
o-Xylene	<0.00200	0.100	0.0365	37	0.0228	27	70-130	46	35	mg/kg	07.02.2020 23:08	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	07.02.2020 23:08
4-Bromofluorobenzene	99		100		70-130	%	07.02.2020 23:08

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

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

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

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

Seq Number: 3130738 Matrix: Soil Date Prep: 07.02.2020

Parent Sample Id: 666185-001 MS Sample Id: 666185-001 S MSD Sample Id: 666185-001 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	0.0386	39	0.0480	48	70-130	22	35	mg/kg	07.03.2020 05:19	X
Toluene	<0.00200	0.0998	0.0248	25	0.0305	31	70-130	21	35	mg/kg	07.03.2020 05:19	X
Ethylbenzene	<0.00200	0.0998	0.0179	18	0.0217	22	70-130	19	35	mg/kg	07.03.2020 05:19	X
m,p-Xylenes	0.00508	0.200	0.0368	16	0.0428	19	70-130	15	35	mg/kg	07.03.2020 05:19	X
o-Xylene	<0.00200	0.0998	0.0191	19	0.0227	23	70-130	17	35	mg/kg	07.03.2020 05:19	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		70-130	%	07.03.2020 05:19
4-Bromofluorobenzene	101		103		70-130	%	07.03.2020 05:19

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

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

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

1RP2120

Client Name: COG	Site Manager: Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	Project #: 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	Sampler Signature: Conner Moehring
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)	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	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	Trench 1 (0-1')	7/2/2020			X			X		1	N	X		X												X								
	Trench 1 (1')	7/2/2020			X			X		1	N															X								
	Trench 1 (2')	7/2/2020			X			X		1	N															X								
	Trench 1 (3')	7/2/2020			X			X		1	N															X								
	Trench 1 (4')	7/2/2020			X			X		1	N															X								
	Trench 1 (5')	7/2/2020			X			X		1	N															X								
	Trench 1 (6')	7/2/2020			X			X		1	N															X								
	Trench 2 (0-1')	7/2/2020			X			X		1	N	X		X												X								
	Trench 2 (1')	7/2/2020			X			X		1	N															X								
	Trench 2 (2')	7/2/2020			X			X		1	N															X								

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by: BRM
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 7/2/20 Time: 1627

LAB USE ONLY

Sample Temperature 7.5/7.1 -0.4 IR#5

REMARKS:

- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr (72 hr)
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

nalysis Request of Chain of Custody Record

Page 2 of 5

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: COG	Site Manager: Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	Project #: 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	Sampler Signature: Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	HNO$_3$	ICE	None	# CONTAINERS	FILTERED (Y/N)	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	Hold
	Trench 2 (3')	7/2/2020			X			X		1	N															X				
	Trench 2 (4')	7/2/2020			X			X		1	N															X				
	Trench 4 (0-1')	7/2/2020			X			X		1	N	X		X												X				
	Trench 4 (1')	7/2/2020			X			X		1	N															X				
	Trench 4 (2')	7/2/2020			X			X		1	N															X				
	Trench 4 (3')	7/2/2020			X			X		1	N															X				
	Trench 4 (4')	7/2/2020			X			X		1	N															X				
	Trench 6 (0-1')	7/2/2020			X			X		1	N	X		X												X				
	Trench 6 (1')	7/2/2020			X			X		1	N															X				
	Trench 6 (2')	7/2/2020			X			X		1	N															X				

elinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by:	Date:	Time:
elinquished by:	Date:	Time:	Received by:	Date:	Time:
elinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY
Sample Temperature

REMARKS:
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) (HAND DELIVERED) FEDEX UPS Tracking #: ____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	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	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	Trench 6 (3')	7/2/2020			X				X			1	N															X									
	Trench 6 (4')	7/2/2020			X				X			1	N															X									
	Trench 8 (0-1')	7/2/2020			X				X			1	N	X		X												X									
	Trench 8 (1')	7/2/2020			X				X			1	N															X									
	Trench 8 (2')	7/2/2020			X				X			1	N															X									
	Trench 8 (3')	7/2/2020			X				X			1	N															X									
	Trench 8 (4')	7/2/2020			X				X			1	N															X									
	Trench 8 (5')	7/2/2020			X				X			1	N															X									
	Trench 8 (6')	7/2/2020			X				X			1	N															X									
	Trench 8 (7')	7/2/2020			X				X			1	N															X									

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by: BTW
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

6664260

Client Name:	COG	**Site Manager:**	Mike Carmona
Project Name:	Sea Biscuit (5.20.20)		
Project Location: (county, state)	Lea Co, NM	**Project #:**	212C-MD-02226
Invoice to:	COG - Ike Tavarez		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Conner Moehring
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING (YEAR: 2020) DATE	TIME	MATRIX WATER	SOIL		PRESERVATIVE METHOD HCL	HNO_3	ICE	None		# CONTAINERS	FILTERED (Y/N)	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				Hold
	Trench 8 (8')	7/2/2020			X				X			1	N															X							
	Trench 8 (9')	7/2/2020			X				X			1	N															X							
	Trench 8 (10')	7/2/2020			X				X			1	N															X							
	Trench 9 (0-1')	7/2/2020			X				X			1	N	X		X												X							
	Trench 9 (1')	7/2/2020			X				X			1	N															X							
	Trench 9 (2')	7/2/2020			X				X			1	N															X							
	Trench 9 (3')	7/2/2020			X				X			1	N															X							
	Trench 9 (4')	7/2/2020			X				X			1	N															X							
	Trench 9 (5')	7/2/2020			X				X			1	N															X							
	Trench 9 (6')	7/2/2020			X				X			1	N															X							

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by: [signature]	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr (72 hr circled)
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED (circled) FEDEX UPS Tracking #: ______

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

DLP 200

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balande				Hold
	Trench 9 (7')	7/2/2020			X				X			1	N																X								
	Trench 9 (8')	7/2/2020			X				X			1	N																X								
	Trench 9 (9')	7/2/2020			X				X			1	N																X								
	Trench 9 (10')	7/2/2020			X				X			1	N																X								

Relinquished by: Conner Moehring Date: 7/2/20 Time: 1647
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 07.02.2020 04.27.00 PM

Work Order #: 666260

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)?	7.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	Cooling in progress
#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: 07.02.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 07.07.2020

Holly Taylor

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-001		669480-002		669480-003		669480-004		669480-005		669480-006	
	Field Id:	Borehole-1 (0-1)		Borehole-1 (2'-3')		Borehole-1 (4'-5')		Borehole-1 (6'-7')		Borehole-1 (9'-10')		Borehole-1 (14'-15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:	08.09.2020 21:24		08.09.2020 21:45									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		<0.00200	0.00200	<0.00200	0.00200								
Toluene		<0.00200	0.00200	<0.00200	0.00200								
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200								
m,p-Xylenes		<0.00401	0.00401	<0.00401	0.00401								
o-Xylene		<0.00200	0.00200	<0.00200	0.00200								
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200								
Total BTEX		<0.00200	0.00200	<0.00200	0.00200								
Chloride by EPA 300	***Extracted:***	08.07.2020 13:50		08.07.2020 13:50		08.07.2020 13:50		08.07.2020 13:50		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 23:58		08.09.2020 00:05		08.09.2020 00:11		08.09.2020 00:17		08.08.2020 12:05		08.08.2020 12:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1090	4.96	215	4.95	20000	250	11800	100	5280	49.5	598	4.99
TPH by SW8015 Mod	***Extracted:***	08.07.2020 16:00		08.07.2020 16:00		08.11.2020 12:00							
	Analyzed:	08.08.2020 03:12		08.08.2020 03:33		08.11.2020 19:42							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9						
Diesel Range Organics (DRO)		2410	50.0	218	49.9	<49.9	49.9						
Motor Oil Range Hydrocarbons (MRO)		257	50.0	57.4	49.9	<49.9	49.9						
Total TPH		2670	50.0	275	49.9	<49.9	49.9						

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-008		669480-009		669480-010		669480-011		669480-012		669480-013	
	Field Id:	Borehole-2 (0-1)		Borehole-2 (2'-3')		Borehole-2 (4'-5')		Borehole-2 (6'-7')		Borehole-2 (9'-10')		Borehole-2 (14'-15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:	08.09.2020 22:05		08.09.2020 22:26									
	Units/RL:	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	***Extracted:***	08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 12:30		08.08.2020 12:36		08.08.2020 12:43		08.08.2020 13:02		08.08.2020 13:08		08.08.2020 13:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7090	50.0	7700	49.8	4780	50.2	3950	24.8	4220	25.0	3220	24.9
TPH by SW8015 Mod	***Extracted:***	08.07.2020 16:00		08.07.2020 16:00									
	Analyzed:	08.08.2020 03:54		08.08.2020 04:14									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0								
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0								
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0								
Total TPH		<49.8	49.8	<50.0	50.0								

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-014		669480-015		669480-016		669480-017		669480-018		669480-019	
	Field Id:	Borehole-2 (16'-20')		Borehole-2 (24'-25')		Borehole-2 (29-30')		Borehole-3 (0-1)		Borehole-3 (2'-3')		Borehole-3 (4'-5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30			
	Analyzed:							08.09.2020 22:46		08.09.2020 23:06			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								<0.00200	0.00200	<0.00202	0.00202		
Toluene								<0.00200	0.00200	<0.00202	0.00202		
Ethylbenzene								<0.00200	0.00200	<0.00202	0.00202		
m,p-Xylenes								<0.00401	0.00401	<0.00403	0.00403		
o-Xylene								<0.00200	0.00200	<0.00202	0.00202		
Total Xylenes								<0.00200	0.00200	<0.00202	0.00202		
Total BTEX								<0.00200	0.00200	<0.00202	0.00202		
Chloride by EPA 300	***Extracted:***	08.12.2020 16:40		08.12.2020 16:40		08.12.2020 16:40		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.12.2020 19:45		08.12.2020 19:51		08.12.2020 19:39		08.08.2020 13:34		08.08.2020 13:53		08.08.2020 13:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		447	5.00	332	5.00	412	5.00	5260	50.0	6180	50.3	27100	250
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 16:00			
	Analyzed:							08.08.2020 04:35		08.08.2020 04:56			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<49.9	49.9	<50.0	50.0		
Diesel Range Organics (DRO)								261	49.9	71.0	50.0		
Motor Oil Range Hydrocarbons (MRO)								<49.9	49.9	<50.0	50.0		
Total TPH								261	49.9	71.0	50.0		

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-020		669480-021		669480-022		669480-024		669480-025		669480-026	
	Field Id:	Borehole-3 (6'-7')		Borehole-3 (9'-10')		Borehole-3 (14'-15')		Borehole-4 (0-1)		Borehole-4 (2'-3')		Borehole-4 (4'-5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30			
	Analyzed:							08.09.2020 23:27		08.09.2020 23:48			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								<0.00200	0.00200	<0.00202	0.00202		
Toluene								<0.00200	0.00200	<0.00202	0.00202		
Ethylbenzene								<0.00200	0.00200	<0.00202	0.00202		
m,p-Xylenes								<0.00401	0.00401	<0.00404	0.00404		
o-Xylene								<0.00200	0.00200	<0.00202	0.00202		
Total Xylenes								<0.00200	0.00200	<0.00202	0.00202		
Total BTEX								<0.00200	0.00200	<0.00202	0.00202		
Chloride by EPA 300	***Extracted:***	08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 14:18		08.08.2020 14:24		08.08.2020 14:31		08.08.2020 14:37		08.08.2020 14:43		08.08.2020 14:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		17700	253	6020	50.5	359	5.05	5550	49.8	6800	50.0	1670	25.0
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 16:00		08.11.2020 12:00	
	Analyzed:							08.08.2020 05:16		08.08.2020 05:37		08.11.2020 20:01	
	Units/RL:							mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)								<49.9	49.9	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)								420	49.9	199	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)								67.5	49.9	<49.9	49.9	<49.8	49.8
Total TPH								488	49.9	199	49.9	<49.8	49.8

BRL - Below Reporting Limit

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested																			
	Lab Id:	669480-027		669480-028		669480-029		669480-032		669480-033		669480-034							
	Field Id:	Borehole-4 (6'-7')		Borehole-4(9'-10')		Borehole-4 (14'-15')		Borehole-5 (0-1)		Borehole-5 (2'-3')		Borehole-5 (4'-5')							
	Depth:																		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL							
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00							
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:							08.10.2020 00:08		08.09.2020 21:04									
	Units/RL:							mg/kg	RL	mg/kg	RL								
Benzene								<0.00199	0.00199	<0.00201	0.00201								
Toluene								<0.00199	0.00199	<0.00201	0.00201								
Ethylbenzene								<0.00199	0.00199	<0.00201	0.00201								
m,p-Xylenes								<0.00398	0.00398	<0.00402	0.00402								
o-Xylene								<0.00199	0.00199	<0.00201	0.00201								
Total Xylenes								<0.00199	0.00199	<0.00201	0.00201								
Total BTEX								<0.00199	0.00199	<0.00201	0.00201								
Chloride by EPA 300	***Extracted:***	08.07.2020 14:30		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00							
	Analyzed:	08.08.2020 14:56		08.09.2020 00:52		08.09.2020 01:08		08.09.2020 01:13		08.09.2020 01:18		08.09.2020 01:23							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		489	5.04	779 X	5.00	448	4.99	2530	24.8	2310	24.9	14800	248						
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 12:00									
	Analyzed:							08.08.2020 05:58		08.07.2020 20:35									
	Units/RL:							mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)								<50.0	50.0	<49.9	49.9								
Diesel Range Organics (DRO)								<50.0	50.0	<49.9	49.9								
Motor Oil Range Hydrocarbons (MRO)								<50.0	50.0	<49.9	49.9								
Total TPH								<50.0	50.0	<49.9	49.9								

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested															
	Lab Id:	669480-035		669480-036		669480-037		669480-038		669480-039		669480-041	
	Field Id:	Borehole-5 (6'-7')		Borehole-5 (9'-10')		Borehole-5 (14'-15')		Borehole-5 (19'-20')		Borehole-5 (24'-25')		Borehole-6 (0-1)	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***											08.08.2020 15:30	
	Analyzed:											08.10.2020 01:31	
	Units/RL:											mg/kg	RL
Benzene												<0.00201	0.00201
Toluene												<0.00201	0.00201
Ethylbenzene												<0.00201	0.00201
m,p-Xylenes												<0.00402	0.00402
o-Xylene												<0.00201	0.00201
Total Xylenes												<0.00201	0.00201
Total BTEX												<0.00201	0.00201
Chloride by EPA 300	***Extracted:***	08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00	
	Analyzed:	08.09.2020 01:39		08.09.2020 01:44		08.09.2020 01:50		08.09.2020 01:55		08.09.2020 02:00		08.09.2020 02:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		19100	252	5950	49.8	2560	25.0	507	5.05	308	5.05	5390	49.8
TPH by SW8015 Mod	***Extracted:***											08.07.2020 12:00	
	Analyzed:											08.07.2020 20:35	
	Units/RL:											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

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	669480-042		669480-043		669480-044					
	Field Id:	Borehole-6(2'-3')		Borehole-6 (4'-5')		Borehole-6 (6'-7')					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00					
Chloride by EPA 300	***Extracted:***	08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00					
	Analyzed:	08.09.2020 02:21		08.09.2020 02:27		08.09.2020 02:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		330	4.97	51.3	4.96	64.0	4.99				

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 669480

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Sea Federal Com 002H (5.20.2020)

212C-MD-02226

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)

eurofins | Environment Testing Xenco

08.17.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **669480**
Concho Sea Federal Com 002H (5.20.2020)
Project Address: Eddy 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) 669480. 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. 669480 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

eurofins | Environment Testing Xenco

Sample Cross Reference 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Borehole-1 (0-1)	S	08.06.2020 00:00		669480-001
Borehole-1 (2'-3')	S	08.06.2020 00:00		669480-002
Borehole-1 (4'-5')	S	08.06.2020 00:00		669480-003
Borehole-1 (6'-7')	S	08.06.2020 00:00		669480-004
Borehole-1 (9'-10')	S	08.06.2020 00:00		669480-005
Borehole-1 (14'-15')	S	08.06.2020 00:00		669480-006
Borehole-2 (0-1)	S	08.06.2020 00:00		669480-008
Borehole-2 (2'-3')	S	08.06.2020 00:00		669480-009
Borehole-2 (4'-5')	S	08.06.2020 00:00		669480-010
Borehole-2 (6'-7')	S	08.06.2020 00:00		669480-011
Borehole-2 (9'-10')	S	08.06.2020 00:00		669480-012
Borehole-2 (14'-15')	S	08.06.2020 00:00		669480-013
Borehole-2 (16'-20')	S	08.06.2020 00:00		669480-014
Borehole-2 (24'-25')	S	08.06.2020 00:00		669480-015
Borehole-2 (29-30')	S	08.06.2020 00:00		669480-016
Borehole-3 (0-1)	S	08.06.2020 00:00		669480-017
Borehole-3 (2'-3')	S	08.06.2020 00:00		669480-018
Borehole-3 (4'-5')	S	08.06.2020 00:00		669480-019
Borehole-3 (6'-7')	S	08.06.2020 00:00		669480-020
Borehole-3 (9'-10')	S	08.06.2020 00:00		669480-021
Borehole-3 (14'-15')	S	08.06.2020 00:00		669480-022
Borehole-4 (0-1)	S	08.06.2020 00:00		669480-024
Borehole-4 (2'-3')	S	08.06.2020 00:00		669480-025
Borehole-4 (4'-5')	S	08.06.2020 00:00		669480-026
Borehole-4 (6'-7')	S	08.06.2020 00:00		669480-027
Borehole-4(9'-10')	S	08.06.2020 00:00		669480-028
Borehole-4 (14'-15')	S	08.06.2020 00:00		669480-029
Borehole-5 (0-1)	S	08.06.2020 00:00		669480-032
Borehole-5 (2'-3')	S	08.06.2020 00:00		669480-033
Borehole-5 (4'-5')	S	08.06.2020 00:00		669480-034
Borehole-5 (6'-7')	S	08.06.2020 00:00		669480-035
Borehole-5 (9'-10')	S	08.06.2020 00:00		669480-036
Borehole-5 (14'-15')	S	08.06.2020 00:00		669480-037
Borehole-5 (19'-20')	S	08.06.2020 00:00		669480-038
Borehole-5 (24'-25')	S	08.06.2020 00:00		669480-039
Borehole-6 (0-1)	S	08.06.2020 00:00		669480-041
Borehole-6(2'-3')	S	08.06.2020 00:00		669480-042
Borehole-6 (4'-5')	S	08.06.2020 00:00		669480-043
Borehole-6 (6'-7')	S	08.06.2020 00:00		669480-044
Borehole-1 (19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-3(19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-4 (19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-4 (24'-25')	S	08.06.2020 00:00		Not Analyzed

eurofins | Environment Testing Xenco

Sample Cross Reference 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Borehole-5 (29'-30')	S	08.06.2020 00:00	Not Analyzed
Borehole-6 (9'-10')	S	08.06.2020 00:00	Not Analyzed
Borehole-6 (14'-15')	S	08.06.2020 00:00	Not Analyzed

eurofins | Environment Testing Xenco

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project ID: *212C-MD-02226*
Work Order Number(s): *669480*

Report Date: *08.17.2020*
Date Received: *08.07.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133978 Chloride by EPA 300

Lab Sample ID 669480-041 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 669480-028, -029, -032, -033, -034, -035, -036, -037, -038, -039, -041, -042, -043, -044.

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

Batch: LBA-3133986 BTEX by EPA 8021B

Lab Sample ID 669480-033 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669480-001, -002, -008, -009, -017, -018, -024, -025, -032, -033, -041.

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

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-001 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1090**	4.96	mg/kg	08.08.2020 23:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2410**	50.0	mg/kg	08.08.2020 03:12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**257**	50.0	mg/kg	08.08.2020 03:12		1
Total TPH	PHC635	**2670**	50.0	mg/kg	08.08.2020 03:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 03:12	
o-Terphenyl	84-15-1	127	%	70-130	08.08.2020 03:12	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-001	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 21:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.09.2020 21:24	
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.09.2020 21:24	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-002 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**215**	4.95	mg/kg	08.09.2020 00:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**218**	49.9	mg/kg	08.08.2020 03:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**57.4**	49.9	mg/kg	08.08.2020 03:33		1
Total TPH	PHC635	**275**	49.9	mg/kg	08.08.2020 03:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.08.2020 03:33	
o-Terphenyl	84-15-1	113	%	70-130	08.08.2020 03:33	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-002	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 21:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 21:45	
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.09.2020 21:45	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (4'-5')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-003 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20000**	250	mg/kg	08.09.2020 00:11		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.11.2020 12:00 Basis: Wet Weight

Seq Number: 3134289

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.11.2020 19:42	
o-Terphenyl	84-15-1	128	%	70-130	08.11.2020 19:42	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-004	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 13:50	Basis:	Wet Weight
Seq Number:	3133971				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11800**	100	mg/kg	08.09.2020 00:17		20

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-005	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5280**	49.5	mg/kg	08.08.2020 12:05		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-006	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**598**	4.99	mg/kg	08.08.2020 12:24		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-2 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-008 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7090**	50.0	mg/kg	08.08.2020 12:30		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.08.2020 03:54	
o-Terphenyl	84-15-1	108	%	70-130	08.08.2020 03:54	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-008	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.09.2020 22:05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.09.2020 22:05	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.09.2020 22:05	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-2 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-009 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7700**	49.8	mg/kg	08.08.2020 12:36		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.08.2020 04:14	
o-Terphenyl	84-15-1	107	%	70-130	08.08.2020 04:14	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-009	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.09.2020 22:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.09.2020 22:26	
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.09.2020 22:26	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-010	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4780**	50.2	mg/kg	08.08.2020 12:43		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-011	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3950**	24.8	mg/kg	08.08.2020 13:02		5

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-012	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4220**	25.0	mg/kg	08.08.2020 13:08		5

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-013	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3220**	24.9	mg/kg	08.08.2020 13:14		5

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (16'-20')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-014	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**447**	5.00	mg/kg	08.12.2020 19:45		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (24'-25')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-015	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**332**	5.00	mg/kg	08.12.2020 19:51		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (29-30')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-016	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**412**	5.00	mg/kg	08.12.2020 19:39		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-3 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-017 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5260**	50.0	mg/kg	08.08.2020 13:34		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 04:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	**261**	49.9	mg/kg	08.08.2020 04:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.08.2020 04:35	U	1
Total TPH	PHC635	**261**	49.9	mg/kg	08.08.2020 04:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.08.2020 04:35	
o-Terphenyl	84-15-1	115	%	70-130	08.08.2020 04:35	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-017	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 22:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 22:46	
4-Bromofluorobenzene	460-00-4	117	%	70-130	08.09.2020 22:46	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-3 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-018 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6180**	50.3	mg/kg	08.08.2020 13:53		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 04:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**71.0**	50.0	mg/kg	08.08.2020 04:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 04:56	U	1
Total TPH	PHC635	**71.0**	50.0	mg/kg	08.08.2020 04:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 04:56	
o-Terphenyl	84-15-1	111	%	70-130	08.08.2020 04:56	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-018	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.09.2020 23:06	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.09.2020 23:06	
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.09.2020 23:06	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-019	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27100**	250	mg/kg	08.08.2020 13:59		50

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-020	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17700**	253	mg/kg	08.08.2020 14:18		50

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-021	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6020**	50.5	mg/kg	08.08.2020 14:24		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-022	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**359**	5.05	mg/kg	08.08.2020 14:31		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-4 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-024 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5550**	49.8	mg/kg	08.08.2020 14:37		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 05:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**420**	49.9	mg/kg	08.08.2020 05:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**67.5**	49.9	mg/kg	08.08.2020 05:16		1
Total TPH	PHC635	**488**	49.9	mg/kg	08.08.2020 05:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.08.2020 05:16	
o-Terphenyl	84-15-1	109	%	70-130	08.08.2020 05:16	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-024	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 23:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.09.2020 23:27	
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.09.2020 23:27	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-4 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-025 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6800**	50.0	mg/kg	08.08.2020 14:43		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	**199**	49.9	mg/kg	08.08.2020 05:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.08.2020 05:37	U	1
Total TPH	PHC635	**199**	49.9	mg/kg	08.08.2020 05:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 05:37	
o-Terphenyl	84-15-1	113	%	70-130	08.08.2020 05:37	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-025	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.09.2020 23:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.09.2020 23:48	
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.09.2020 23:48	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-4 (4'-5')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-026 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1670**	25.0	mg/kg	08.08.2020 14:50		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.11.2020 12:00 Basis: Wet Weight

Seq Number: 3134289

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.11.2020 20:01	
o-Terphenyl	84-15-1	128	%	70-130	08.11.2020 20:01	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-027	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**489**	5.04	mg/kg	08.08.2020 14:56		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4(9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-028	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**779**	5.00	mg/kg	08.09.2020 00:52	X	1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-029	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**448**	4.99	mg/kg	08.09.2020 01:08		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-5 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-032 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2530**	24.8	mg/kg	08.09.2020 01:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.08.2020 05:58	
o-Terphenyl	84-15-1	108	%	70-130	08.08.2020 05:58	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-032	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.10.2020 00:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.10.2020 00:08	
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.10.2020 00:08	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-5 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-033 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2310**	24.9	mg/kg	08.09.2020 01:18		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 12:00 Basis: Wet Weight

Seq Number: 3134024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.07.2020 20:35	
o-Terphenyl	84-15-1	109	%	70-130	08.07.2020 20:35	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-033	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.09.2020 21:04	UX	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.09.2020 21:04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.09.2020 21:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.09.2020 21:04	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 21:04	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-034	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14800**	248	mg/kg	08.09.2020 01:23		50

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-035	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19100**	252	mg/kg	08.09.2020 01:39		50

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-036	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5950**	49.8	mg/kg	08.09.2020 01:44		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-037	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2560**	25.0	mg/kg	08.09.2020 01:50		5

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (19'-20')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-038	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**507**	5.05	mg/kg	08.09.2020 01:55		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (24'-25')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-039	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**308**	5.05	mg/kg	08.09.2020 02:00		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-6 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-041 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5390**	49.8	mg/kg	08.09.2020 02:05		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 12:00 Basis: Wet Weight

Seq Number: 3134011

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	08.07.2020 20:35	
o-Terphenyl	84-15-1	103	%	70-130	08.07.2020 20:35	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-041	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.10.2020 01:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.10.2020 01:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.10.2020 01:31	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6(2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-042	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**330**	4.97	mg/kg	08.09.2020 02:21		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-043	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.3**	4.96	mg/kg	08.09.2020 02:27		1

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-044	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**64.0**	4.99	mg/kg	08.09.2020 02:42		1

eurofins | Environment Testing Xenco

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708977-1-BLK — LCS Sample Id: 7708977-1-BKS — LCSD Sample Id: 7708977-1-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	258	103	258	103	90-110	0	20	mg/kg	08.08.2020 21:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708982-1-BLK — LCS Sample Id: 7708982-1-BKS — LCSD Sample Id: 7708982-1-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	255	102	255	102	90-110	0	20	mg/kg	08.08.2020 11:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708990-1-BLK — LCS Sample Id: 7708990-1-BKS — LCSD Sample Id: 7708990-1-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	245	98	244	98	90-110	0	20	mg/kg	08.09.2020 00:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709299-1-BLK — LCS Sample Id: 7709299-1-BKS — LCSD Sample Id: 7709299-1-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	273	109	274	110	90-110	0	20	mg/kg	08.12.2020 16:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-060 — MS Sample Id: 669481-060 S — MSD Sample Id: 669481-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.09	249	260	101	261	101	90-110	0	20	mg/kg	08.08.2020 21:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-070 — MS Sample Id: 669481-070 S — MSD Sample Id: 669481-070 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.99	248	243	95	243	95	90-110	0	20	mg/kg	08.08.2020 23:02	

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-005 — MS Sample Id: 669480-005 S — MSD Sample Id: 669480-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5280	2480	7900	106	7910	106	90-110	0	20	mg/kg	08.08.2020 12:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-017 — MS Sample Id: 669480-017 S — MSD Sample Id: 669480-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5260	2500	7690	97	7690	97	90-110	0	20	mg/kg	08.08.2020 13:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-028 — MS Sample Id: 669480-028 S — MSD Sample Id: 669480-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	779	250	987	83	983	82	90-110	0	20	mg/kg	08.09.2020 00:57	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-041 — MS Sample Id: 669480-041 S — MSD Sample Id: 669480-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5390	2490	7940	102	7960	103	90-110	0	20	mg/kg	08.09.2020 02:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669777-001 — MS Sample Id: 669777-001 S — MSD Sample Id: 669777-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	282	114	280	113	90-110	1	20	mg/kg	08.12.2020 17:06	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669808-001 — MS Sample Id: 669808-001 S — MSD Sample Id: 669808-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2230	1240	3590	110	3590	110	90-110	0	20	mg/kg	08.12.2020 18:35	

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709030-1-BLK — LCS Sample Id: 7709030-1-BKS — LCSD Sample Id: 7709030-1-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	905	91	878	88	70-130	3	20	mg/kg	08.07.2020 12:04	
Diesel Range Organics (DRO)	<50.0	1000	919	92	923	92	70-130	0	20	mg/kg	08.07.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		90		94		70-130	%	08.07.2020 12:04
o-Terphenyl	96		88		93		70-130	%	08.07.2020 12:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709032-1-BLK — LCS Sample Id: 7709032-1-BKS — LCSD Sample Id: 7709032-1-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	936	94	906	91	70-130	3	20	mg/kg	08.07.2020 12:04	
Diesel Range Organics (DRO)	<50.0	1000	992	99	965	97	70-130	3	20	mg/kg	08.07.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		125		118		70-130	%	08.07.2020 12:04
o-Terphenyl	111		114		107		70-130	%	08.07.2020 12:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709036-1-BLK — LCS Sample Id: 7709036-1-BKS — LCSD Sample Id: 7709036-1-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	944	94	952	95	70-130	1	20	mg/kg	08.07.2020 21:38	
Diesel Range Organics (DRO)	<50.0	1000	950	95	955	96	70-130	1	20	mg/kg	08.07.2020 21:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		123		125		70-130	%	08.07.2020 21:38
o-Terphenyl	114		110		116		70-130	%	08.07.2020 21:38

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

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

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134289 — Matrix: Solid — Date Prep: 08.11.2020
MB Sample Id: 7709212-1-BLK — LCS Sample Id: 7709212-1-BKS — LCSD Sample Id: 7709212-1-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	854	85	884	88	70-130	3	20	mg/kg	08.11.2020 12:17	
Diesel Range Organics (DRO)	<50.0	1000	838	84	898	90	70-130	7	20	mg/kg	08.11.2020 12:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		124		129		70-130	%	08.11.2020 12:17
o-Terphenyl	121		120		128		70-130	%	08.11.2020 12:17

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709030-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 11:43	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709032-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 11:43	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709036-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 21:17	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134289 — Matrix: Solid — Date Prep: 08.11.2020
MB Sample Id: 7709212-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.11.2020 11:57	

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669427-001 — MS Sample Id: 669427-001 S — MSD Sample Id: 669427-001 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	997	842	84	800	80	70-130	5	20	mg/kg	08.07.2020 13:08	
Diesel Range Organics (DRO)	<49.9	997	838	84	831	83	70-130	1	20	mg/kg	08.07.2020 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		95		70-130	%	08.07.2020 13:08
o-Terphenyl	93		93		70-130	%	08.07.2020 13:08

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669326-004 — MS Sample Id: 669326-004 S — MSD Sample Id: 669326-004 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)	<50.0	999	868	87	885	89	70-130	2	20	mg/kg	08.07.2020 13:08	
Diesel Range Organics (DRO)	<50.0	999	892	89	913	91	70-130	2	20	mg/kg	08.07.2020 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		111		70-130	%	08.07.2020 13:08
o-Terphenyl	98		100		70-130	%	08.07.2020 13:08

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-061 — MS Sample Id: 669481-061 S — MSD Sample Id: 669481-061 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	997	880	88	903	91	70-130	3	20	mg/kg	08.07.2020 22:41	
Diesel Range Organics (DRO)	<49.9	997	832	83	952	96	70-130	13	20	mg/kg	08.07.2020 22:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		113		70-130	%	08.07.2020 22:41
o-Terphenyl	101		103		70-130	%	08.07.2020 22:41

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

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

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

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3134289 Matrix: Soil Date Prep: 08.11.2020
Parent Sample Id: 669564-001 MS Sample Id: 669564-001 S MSD Sample Id: 669564-001 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	997	801	80	821	82	70-130	2	20	mg/kg	08.11.2020 13:16	
Diesel Range Organics (DRO)	104	997	874	77	866	77	70-130	1	20	mg/kg	08.11.2020 13:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		124		70-130	%	08.11.2020 13:16
o-Terphenyl	120		124		70-130	%	08.11.2020 13:16

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3133986 Matrix: Solid Date Prep: 08.08.2020
MB Sample Id: 7709044-1-BLK LCS Sample Id: 7709044-1-BKS LCSD Sample Id: 7709044-1-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	0.110	110	0.105	105	70-130	5	35	mg/kg	08.09.2020 18:40	
Toluene	<0.00200	0.100	0.0976	98	0.0940	94	70-130	4	35	mg/kg	08.09.2020 18:40	
Ethylbenzene	<0.00200	0.100	0.0912	91	0.0884	88	70-130	3	35	mg/kg	08.09.2020 18:40	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.174	87	70-130	3	35	mg/kg	08.09.2020 18:40	
o-Xylene	<0.00200	0.100	0.0896	90	0.0869	87	70-130	3	35	mg/kg	08.09.2020 18:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		103		101		70-130	%	08.09.2020 18:40
4-Bromofluorobenzene	106		95		93		70-130	%	08.09.2020 18:40

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3133986 Matrix: Soil Date Prep: 08.08.2020
Parent Sample Id: 669480-033 MS Sample Id: 669480-033 S MSD Sample Id: 669480-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0640	63	0.0600	59	70-130	6	35	mg/kg	08.09.2020 19:22	X
Toluene	<0.00202	0.101	0.0446	44	0.0419	41	70-130	6	35	mg/kg	08.09.2020 19:22	X
Ethylbenzene	<0.00202	0.101	0.0348	34	0.0333	33	70-130	4	35	mg/kg	08.09.2020 19:22	X
m,p-Xylenes	<0.00403	0.202	0.0552	27	0.0507	25	70-130	8	35	mg/kg	08.09.2020 19:22	X
o-Xylene	<0.00202	0.101	0.0382	38	0.0372	37	70-130	3	35	mg/kg	08.09.2020 19:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	08.09.2020 19:22
4-Bromofluorobenzene	106		108		70-130	%	08.09.2020 19:22

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

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

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1009480

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	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
	Borehole-1 (0-1')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-1 (2'-3')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-1 (4'-5')	8/6/2020			X				X		1	N															X							
	Borehole-1 (6'-7')	8/6/2020			X				X		1	N															X							
	Borehole-1 (9'-10')	8/6/2020			X				X		1	N															X							
	Borehole-1 (14'-15')	8/6/2020			X				X		1	N															X							
	Borehole-1 (19'-20')	8/6/2020			X				X		1	N															X							
	Borehole-2 (0-1')	8/6/2020			X				X		1	N																						X
	Borehole-2 (2'-3')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-2 (4'-5')	8/6/2020			X				X		1	N	X		X												X							

Relinquished by:	Date: 8/7/20	Time: 1022	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 8/7/20 Time: 1022

Received by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.4/2.2 -0.4

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Labquest

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	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
	Borehole-2 (6'-7')	8/6/2020			X			X		1	N																X						
	Borehole-2 (9'-10')	8/6/2020			X			X		1	N																X						
	Borehole-2 (14'-15')	8/6/2020			X			X		1	N																X						
	Borehole-2 (19'-20')	8/6/2020			X			X		1	N																X						
	Borehole-2 (24'-25')	8/6/2020			X			X		1	N																X						
	Borehole-2 (29'-30')	8/6/2020			X			X		1	N																X						
	Borehole-3 (0-1')	8/6/2020			X			X		1	N																						X
	Borehole-3 (2'-3')	8/6/2020			X			X		1	N	X				X											X						
	Borehole-3 (4'-5')	8/6/2020			X			X		1	N	X				X											X						
	Borehole-3 (6'-7')	8/6/2020			X			X		1	N																X						

ANALYSIS REQUEST
(Circle or Specify Method No.)

	Date:	Time:
Relinquished by:	8/7/20	1022
Relinquished by:		
Relinquished by:		

	Date:	Time:
Received by:	8/7	1022
Received by:		
Received by:		

LAB USE ONLY
Sample Temperature
2.6/2.2

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page 3 of 5

Tetra Tech, Inc.

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

669480

Client Name:	Concho
Site Manager:	Mike Carmona
Project Name:	Sea Biscuit Federal Com 002H (5.20.2020)
Project Location: (county, state)	Eddy County, New Mexico
Project #:	212C-MD-02226
Invoice to:	Ike Tavarez
Receiving Laboratory:	Xenco
Sampler Signature:	Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX WATER	SOIL		PRESERVATIVE METHOD HCL	HNO_3	ICE	None		# CONTAINERS	FILTERED (Y/N)
	Borehole-3 (9'-10')	8/6/2020			X				X			1	N
	Borehole-3 (14'-15')	8/6/2020			X				X			1	N
	Borehole-3 (19'-20')	8/6/2020			X				X			1	N
	Borehole-4 (0-1')	8/6/2020			X				X			1	N
	Borehole-4 (2'-3')	8/6/2020			X				X			1	N
	Borehole-4 (4'-5')	8/6/2020			X				X			1	N
	Borehole-4 (6'-7')	8/6/2020			X				X			1	N
	Borehole-4 (9'-10')	8/6/2020			X				X			1	N
	Borehole-4 (14'-15')	8/6/2020			X				X			1	N
	Borehole-4 (19'-20')	8/6/2020			X				X			1	N

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION	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
Borehole-3 (9'-10')															X								
Borehole-3 (14'-15')															X								
Borehole-3 (19'-20')																							X
Borehole-4 (0-1')	X		X												X								
Borehole-4 (2'-3')	X		X												X								
Borehole-4 (4'-5')															X								
Borehole-4 (6'-7')															X								
Borehole-4 (9'-10')															X								
Borehole-4 (14'-15')															X								
Borehole-4 (19'-20')															X								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	8/7/20	1022	[signature]	8/7	1022
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY
Sample Temperature: 2.6/2.2

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

10094480

Client Name: Concho	Site Manager: Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	Project #: 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	Sampler Signature: Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R			Hold
	Borehole-4 (24'-25')	8/6/2020			X				X			1	N																					
	Borehole-5 (0-1')	8/6/2020			X				X			1	N	X		X												X						X
	Borehole-5 (2'-3')	8/6/2020			X				X			1	N	X		X												X						
	Borehole-5 (4'-5')	8/6/2020			X				X			1	N															X						
	Borehole-5 (6'-7')	8/6/2020			X				X			1	N															X						
	Borehole-5 (9'-10')	8/6/2020			X				X			1	N															X						
	Borehole-5 (14'-15')	8/6/2020			X				X			1	N															X						
	Borehole-5 (19'-20')	8/6/2020			X				X			1	N															X						
	Borehole-5 (24'-25')	8/6/2020			X				X			1	N															X						
	Borehole-5 (29'-30')	8/6/2020			X				X			1	N															X						

Relinquished by:	Date: 8/7/20	Time: 1032	Received by: Date: 8/7/20 Time: 1032
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.6/2.2

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1069480

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)
	Borehole-6 (0-1')	8/6/2020			X				X		1	N
	Borehole-6 (2'-3')	8/6/2020			X				X		1	N
	Borehole-6 (4'-5')	8/6/2020			X				X		1	N
	Borehole-6 (6'-7')	8/6/2020			X				X		1	N
	Borehole-6 (9'-10')	8/6/2020			X				X		1	N
	Borehole-6 (14'-15')	8/6/2020			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
	X			X													X					
																	X					
																	X					
																	X					
																	X					
																						X
																						X

Relinquished by: Date: 8/7/20 Time: 1052
Received by: Date: 8/7/20 Time: 1052

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature 2.6/2.2

REMARKS:
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.07.2020 10.22.00 AM

Work Order #: 669480

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	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#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: 08.07.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.07.2020
Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 670009

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21
Report Date: 08.17.2020 13:06
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	670009-001		670009-002		670009-003		670009-004		670009-005		670009-006	
	Field Id:	Horizontal-1 (0-1')		Horizontal-2 (0-1')		Horizontal-3 (0-1')		Horizontal-4 (0-1')		Horizontal-5 (0-1')		Horizontal-6 (0-1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	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	***Extracted:***	08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30	
	Analyzed:	08.15.2020 00:02		08.15.2020 00:23		08.15.2020 00:43		08.15.2020 01:04		08.15.2020 01:24		08.15.2020 02:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00400	0.00400	<0.00398	0.00398	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45	
	Analyzed:	08.14.2020 12:07		08.14.2020 12:12		08.14.2020 12:17		08.14.2020 12:22		08.14.2020 12:28		08.14.2020 12:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		10.3	4.98	18.5	5.03	31.1	4.99	68.2	4.96	185	5.04	55.4	4.98
TPH by SW8015 Mod	***Extracted:***	08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00	
	Analyzed:	08.13.2020 22:07		08.13.2020 23:03		08.14.2020 02:12		08.14.2020 02:31		08.14.2020 02:49		08.14.2020 03:08	
	Units/RL:	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

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 670009

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21
Report Date: 08.17.2020 13:06
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	670009-007		670009-008		670009-009		670009-010		670009-011			
	Field Id:	Horizontal-7 (0-1')		Horizontal-8 (0-1')		Horizontal-9 (0-1')		Horizontal-10 (0-1')		Horizontal-11 (0-1')			
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL			
	Sampled:	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	***Extracted:***	08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30			
	Analyzed:	08.15.2020 03:07		08.15.2020 03:28		08.15.2020 03:48		08.15.2020 04:09		08.15.2020 04:29			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
m,p-Xylenes		<0.00400	0.00400	<0.00397	0.00397	<0.00397	0.00397	<0.00400	0.00400	<0.00398	0.00398		
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Chloride by EPA 300	***Extracted:***	08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45			
	Analyzed:	08.14.2020 12:49		08.14.2020 12:54		08.14.2020 13:44		08.14.2020 13:49		08.14.2020 13:55			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		16.6	5.03	10.5	4.96	13.3	4.95	20.2	4.95	33.6	4.95		
TPH by SW8015 Mod	***Extracted:***	08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00			
	Analyzed:	08.13.2020 23:22		08.13.2020 22:45		08.14.2020 03:27		08.13.2020 23:41		08.14.2020 00:00			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 670009

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Sea Biscuit Federal Com 002H (5.20.2020)

212C-MD-02226

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)

eurofins | Environment Testing Xenco

08.17.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **670009**
Concho Sea Biscuit Federal Com 002H (5.20.2020)
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) 670009. 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. 670009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

eurofins | Environment Testing Xenco

Sample Cross Reference 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	08.12.2020 00:00		670009-001
Horizontal-2 (0-1')	S	08.12.2020 00:00		670009-002
Horizontal-3 (0-1')	S	08.12.2020 00:00		670009-003
Horizontal-4 (0-1')	S	08.12.2020 00:00		670009-004
Horizontal-5 (0-1')	S	08.12.2020 00:00		670009-005
Horizontal-6 (0-1')	S	08.12.2020 00:00		670009-006
Horizontal-7 (0-1')	S	08.12.2020 00:00		670009-007
Horizontal-8 (0-1')	S	08.12.2020 00:00		670009-008
Horizontal-9 (0-1')	S	08.12.2020 00:00		670009-009
Horizontal-10 (0-1')	S	08.12.2020 00:00		670009-010
Horizontal-11 (0-1')	S	08.12.2020 00:00		670009-011

eurofins | Environment Testing Xenco

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project ID: *212C-MD-02226*
Work Order Number(s): *670009*

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,670009-009.

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-1 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-001 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	**10.3**	4.98	mg/kg	08.14.2020 12:07		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	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.13.2020 22:07	
o-Terphenyl	84-15-1	115	%	70-130	08.13.2020 22:07	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-1 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-001	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	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 00:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.15.2020 00:02	
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.15.2020 00:02	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-2 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-002 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	**18.5**	5.03	mg/kg	08.14.2020 12:12		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 23:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.13.2020 23:03	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 23:03	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-2 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-002	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	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 00:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.15.2020 00:23	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.15.2020 00:23	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-3 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-003 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	**31.1**	4.99	mg/kg	08.14.2020 12:17		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	08.14.2020 02:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	08.14.2020 02:12	
o-Terphenyl	84-15-1	118	%	70-130	08.14.2020 02:12	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-3 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-003	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:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 00:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.15.2020 00:43	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.15.2020 00:43	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-4 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-004 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	**68.2**	4.96	mg/kg	08.14.2020 12:22		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	08.14.2020 02:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.14.2020 02:31	
o-Terphenyl	84-15-1	122	%	70-130	08.14.2020 02:31	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-4 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-004	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:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 01:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.15.2020 01:04	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.15.2020 01:04	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-5 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-005 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**185**	5.04	mg/kg	08.14.2020 12:28		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	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.14.2020 02:49	
o-Terphenyl	84-15-1	124	%	70-130	08.14.2020 02:49	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-5 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-005	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 01:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.15.2020 01:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.15.2020 01:24	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 01:24	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-6 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-006 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**55.4**	4.98	mg/kg	08.14.2020 12:33		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	08.14.2020 03:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	08.14.2020 03:08	
o-Terphenyl	84-15-1	121	%	70-130	08.14.2020 03:08	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-6 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-006	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	08.15.2020 02:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 02:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	08.15.2020 02:47	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 02:47	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-7 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-007 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.6**	5.03	mg/kg	08.14.2020 12:49		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 23:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.13.2020 23:22	
o-Terphenyl	84-15-1	123	%	70-130	08.13.2020 23:22	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-7 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-007	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 03:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 03:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.15.2020 03:07	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.15.2020 03:07	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-8 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-008 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.5**	4.96	mg/kg	08.14.2020 12:54		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 22:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.13.2020 22:45	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 22:45	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-8 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-008	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	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.15.2020 03:28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.15.2020 03:28	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.15.2020 03:28	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-9 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-009 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.3**	4.95	mg/kg	08.14.2020 13:44		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	08.14.2020 03:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.14.2020 03:27	
o-Terphenyl	84-15-1	131	%	70-130	08.14.2020 03:27	**

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-9 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-009	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	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.15.2020 03:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	08.15.2020 03:48	
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.15.2020 03:48	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-10 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-010 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.2**	4.95	mg/kg	08.14.2020 13:49		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	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.13.2020 23:41	
o-Terphenyl	84-15-1	120	%	70-130	08.13.2020 23:41	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-10 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-010	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 04:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 04:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.15.2020 04:09	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 04:09	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-11 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-011 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 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.6**	4.95	mg/kg	08.14.2020 13:55		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	08.14.2020 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	08.14.2020 00:00	
o-Terphenyl	84-15-1	121	%	70-130	08.14.2020 00:00	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-11 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-011	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	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 04:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.15.2020 04:29	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.15.2020 04:29	

eurofins | Environment Testing Xenco

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

eurofins | Environment Testing Xenco

QC Summary 670009

Tetra Tech- Midland

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Solid — 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 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Soil — 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 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Soil — 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 — Prep Method: SW8015P
Seq Number: 3134546 — Matrix: Solid — 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 — Prep Method: SW8015P
Seq Number: 3134546 — Matrix: Solid — 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 [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

eurofins | Environment Testing Xenco

QC Summary 670009

Tetra Tech- Midland

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3134546 Matrix: Soil 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** Prep Method: SW5035A
Seq Number: 3134670 Matrix: Solid 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 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

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134670 Matrix: Soil 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 [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

670009

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	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
	Horizontal-1(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-2(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-3(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-4(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-5(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-6(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-7(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-8(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-9(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-10(0-1')	8/12/2020			X				X			1	N	X		X												X							

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

Date: 8/13 Time: 1521

LAB USE ONLY

Sample Temperature 0.8/0.4

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

le70009

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 2121-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)
	Horizontal-11(0-1')	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
	X		X												X							

Relinquished by: Comm mailing	Date: 8/13/20	Time: 1521	Received by: BTM	Date: 8/13 Time: 1521
Relinquished by:	Date:	Time:	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received by:	Date: Time:

LAB USE ONLY
Sample Temperature
0.8/0.4

REMARKS:
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.13.2020 03.21.00 PM

Work Order #: 670009

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?	**Yes**	
#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
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.14.2020
Jessica Kramer

State of New Mexico
Oil Conservation Division

Incident ID	NRM2013962666
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: Ike Tavarez Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 3/30/2021

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

Signature: Robert Hamlet Date: 3/30/2021

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 11012

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	229137	11012	C-141

OCD Reviewer	Condition
rhamlet	The Remediation Plan is approved with the following conditions: All floor samples 0-4' need to be below closure criteria standards of <50' depth to groundwater from Table 1 of the spill rule. All floor samples >4' need to be below closure criteria standards of 51-100' depth to groundwater from Table 1 of the spill rule. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH.