Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nDHR1922039043
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?	246 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☒ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

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State of New Mexico
Oil Conservation Division

Incident ID	nDHR1922039043
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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: Albert Ochoa Title: HSE Representative

Signature: Albert Ochoa Date: 9/8/20

email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nDHR1922039043
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Facility ID	
Application ID	

Remediation Plan

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

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

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

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Albert Ochoa
Title: HSE Representative

Signature: Albert Ochoa
Date: 9/8/20

email: albert.ochoa@goodnightmidstream.com
Telephone: (432) 242-6629

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

Site Assessment Report and Proposed Remediation Workplan

Goodnight Midstream Permian, LLC
Wrigley SWD
Lea County, New Mexico
Unit Letter N, Section 17, Township 21 South, Range 36 East
Latitude 32.4723084 North, Longitude 103.2886783 West
NMOCD Reference No. nDHR1922039043

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

Joel Lowry

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Report for the Release Site known as the Wrigley SWD. Details of the release are summarized below:

Location of Release Source

Latitude: 32.4723084 Longitude: -103.2886783

Provided GPS are in WGS84 format.

Site Name:	Wrigley SWD	Site Type:	SWD
Date Release Discovered:	6/29/2019	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
N	17	21S	36E	Lea

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name Dasco Cattle Co LLC)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 200	Volume Recovered (bbls) 40
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[X] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
A hose ruptured causing the release. Produced water released was contained inside the facility burms/firewalls and secondary containment.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	246 ft bgs
Did the 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 any 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 the 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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
246	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

On July 3, 2019, an alternate environmental contractor conducted an initial release assesment at the Site. During the initial site assessment, thirteen (13) delineation soil samples (NCF #1 @ 0-6", NWCF #2 @ 0-6", NWF #3 @ 0-6", Electric Panel #4 @ 0-6", Trans Smp #5 @ 0-6", West Center #7 @ 0-6", South Center #8 @ 0-6", Center #9 @ 0-6", Center #10 @ 0-6", Discharge SMP #11 @ 0-6", South East SMP #12 @ 0-6", NE SMP #13 @ 0-6", and NE SMP #14 @ 0-6") were collected and submitted to the laboratory for analysis of chloride concentrations, which were determined to be above the NMOCD Closure Criteria in each of the submitted soil samples.

On September 11, 2019, the alternate contractor continued the initial site assessment. Three (3) delineation soil samples (SE #12, NE #13 and NE #14) were collected and submitted to the laboratory for analysis of BTEX and TPH concentrations, which were determined to be below the NMOCD Closure Criteria.

On May 19, 2020, the alternate contractor continued the initial site assessment. Thirteen (13) delineation soil samples (NCF #1 @ 12"-14", NWCF #2 @ 12"-14", NWF #3 @ 12"-14", Electric Panel #4 @ 12"-14", Trans SMP #5 @ 12"-14", West Center #7 @ 12"-14", South Center #8 @ 12"-14", Center #9 @ 12"-14", Center #10 @ 12"-14", Discharge SMP #11 12"-14", SE SMP #12 @ 12"-14", NE SMP #13 @ 12"-14", and NE SMP #14 @ 12"-14") were submitted to the laboratory for analysis of Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 14" BGS with the exception of the area characterized by soil sample NWCF #2 @ 12" – 14" (1,430 mg/kg Cl-).

On July 27, 2020, Etech conducted an initial assessment at the Site. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, ten (10) delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', NCF #2 @ 1', and NCF #2 @ 2') were submitted to the laboratory for analysis of BTEX, TPH and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 2 Ft. BGS in the area characterized by sample points NWCF #2 and NCF #2 and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

• Utilizing mechanical equipment, excavate impacted soil within the release margins affected above the NMOCD Closure Criteria. Impacted soil in the release area will be excavated until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or the NMOCD Reclamation
• Excavated material will be temporarily stockpiled atop a plastic liner, then transported to the nearest NMOCD-permitted disposal facility.
• Upon excavating impacted soil affected above the NMOCD Closure Criteria and receiving laboratory analytical results from excavation confirmation soil samples, the excavated area will be backfilled with locally sourced, non-impacted "like" material.
• Upon completion of remediation activities, a *Remediation Summary and Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 500 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately 1,200 cubic yards is in need of removal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

10.0 DISTRIBUTION

Goodnight Midstream Permian, LLC
5910 N Central Expy
Dallas, TX 75206

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

(Electronic Submission)

Figure 1
Topographic Map

Legend

Site Location

Figure 1

Topographic Map

Goodnight Midstream Permian, LLC

Wrigley SWD

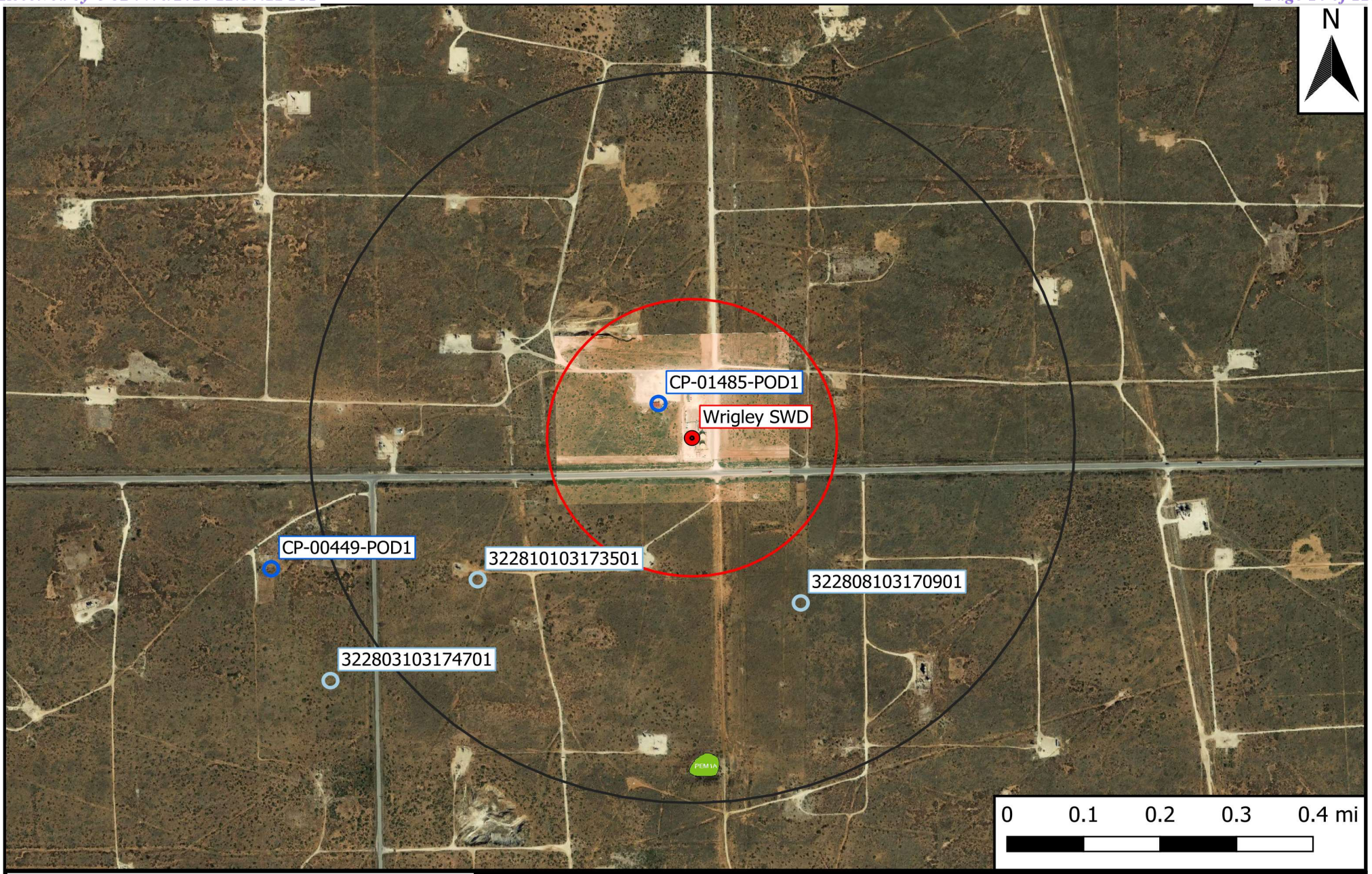
GPS: 32.4723084, -103.2886783

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/20

Figure 2
Aerial Proximity Map



Legend

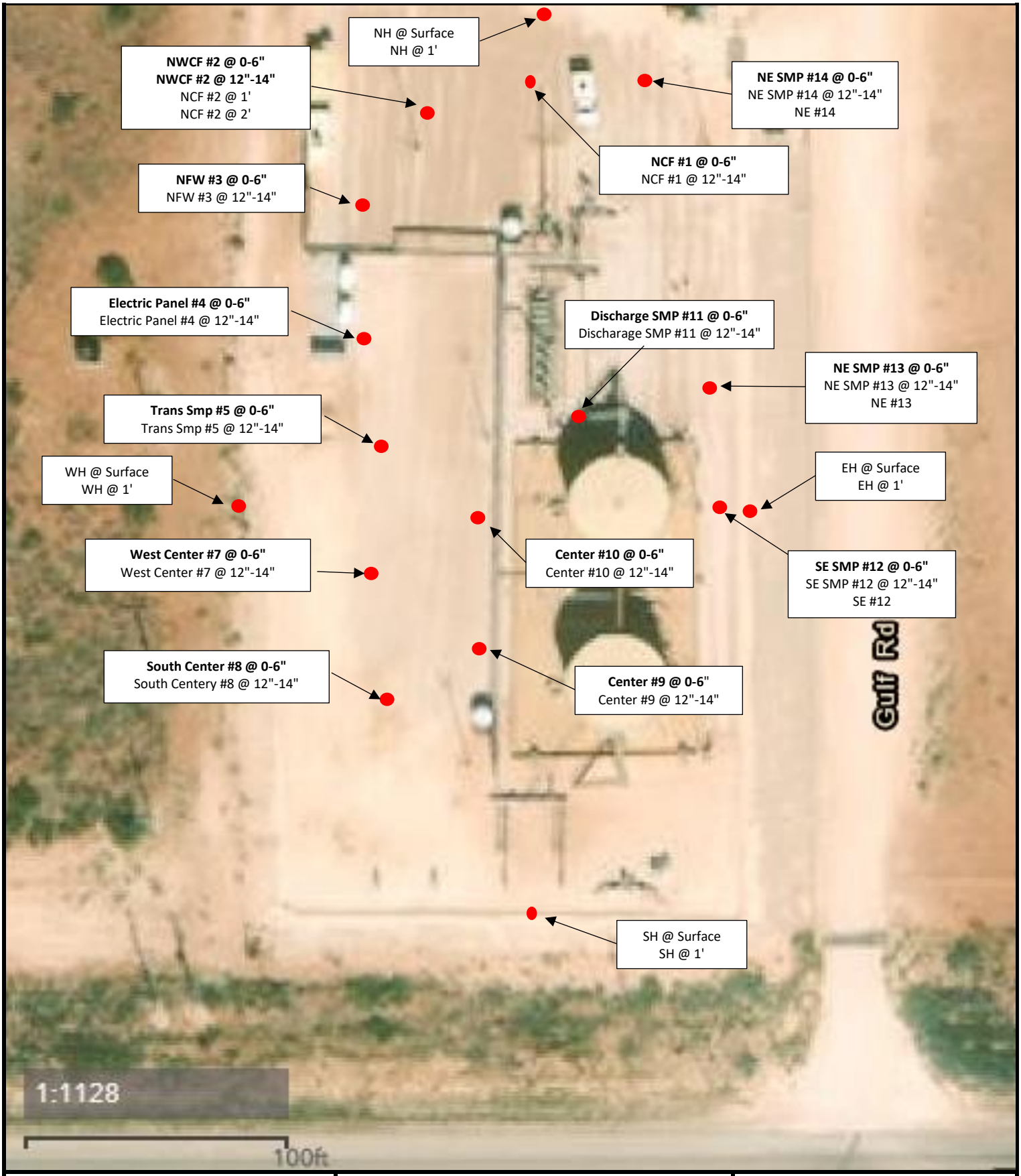
- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Potash Mine Workings
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2
Aerial Map
Goodnight Midstream Permian, LLC
Wrigley SWD
GPS: 32.4723084, -103.2886783
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/20

Figure 3
Site and Sample Location Map



Legend:

Sample Point

Figure 3

Site and Sample Location Map

Goodnight Midstream Permian, LLC

Wrigley SWD

GPS: 32.4723084, -103.2886783

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl Date: 8/25/20

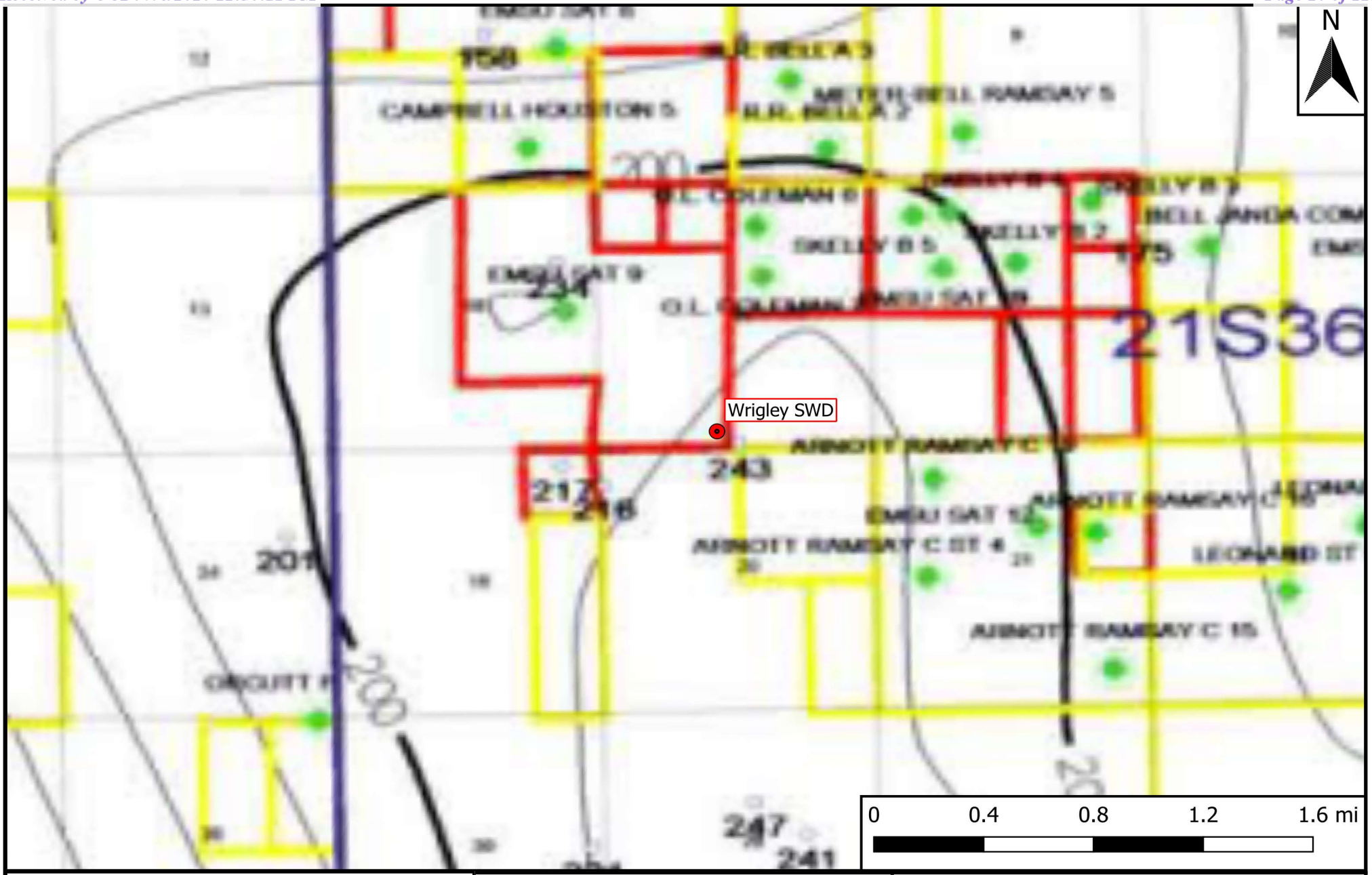
Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Wrigley SWD
NMOCD Ref. #: nDHR1922039043

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
				SW 846 8021B		**SW 846 8015M Ext.**					**4500 Cl**
Sample ID	**Date**	**Depth**	**Soil Status**	**Benzene (mg/kg)**	**BTEX (mg/kg)**	**GRO (mg/kg)**	**DRO (mg/kg)**	**GRO + DRO (mg/kg)**	**ORO (mg/kg)**	**TPH (mg/kg)**	**Chloride (mg/kg)**
NCF #1 @ 0-6"	7/3/2019	Excavated	In-Situ	-	-	-	-	-	-	-	**10,900**
NWCF #2 @ 0-6"	7/3/2019	Excavated	In-Situ	-	-	-	-	-	-	-	**8,840**
NWF #3 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**14,500**
Electric Panel #4 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**21,200**
Trans Smp #5 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**9,320**
West Center #7 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**20,300**
South Center #8 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**12,800**
Center #9 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**28,700**
Center #10 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**17,300**
Discharge SMP #11 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**15,800**
South East SMP #12 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**18,500**
NE SMP #13 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**16,700**
NE SMP #14 @ 0-6"	7/3/2019	0-6"	In-Situ	-	-	-	-	-	-	-	**19,700**
SE #12	9/11/2019	12"	In-Situ	-	-	<27.8	<27.8	<27.8	<27.8	<27.8	-
NE #13	9/11/2019	12"	In-Situ	-	-	<26.9	<26.9	<26.9	<26.9	<26.9	-
NE #14	9/11/2019	12"	In-Situ	-	-	<28.1	<28.1	<28.1	<28.1	<28.1	-
NCF #1 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	48.3
NWCF #2 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	**1,430**
NWF #3 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	220
Electric Panel #4 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	59.6
Trans SMP #5 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	42.1
West Center #7 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	266
South Center #8 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	74.0
Center #9 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	31.1
Center #10 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	63.7
Discharge SMP #11 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	22.3
SE SMP #12 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	132
NE SMP #13 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	97.8
NE SMP #14 @ 12"-14"	5/19/2020	12"-14"	In-Situ	-	-	-	-	-	-	-	32.6
NH @ Surface	7/27/2020	Surface	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
NH @ 1'	7/27/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
EH @ Surface	7/27/2020	Surface	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	6.41
EH @ 1'	7/27/2020	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	24.8
SH @ Surface	7/27/2020	Surface	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	19.8
SH @ 1'	7/27/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	30.5
WH @ Surface	7/27/2020	Surface	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	70.6
WH @ 1'	7/27/2020	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	15.9
NCF #2 @ 1'	7/27/2020	Surface	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	15.9
NCF #2 @ 2'	7/27/2020	2'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<5.03

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Goodnight Midstream Permian, LLC

Wrigley SWD

GPS: 32.4723084, -103.2886783

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/20

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01485 POD1		CP	LE	4	4	3	17	21S	36E	660749	3594154	103	305	246	59
CP 00281 POD1		CP	LE	3	1	1	20	21S	36E	660236	3593696*	698	201		

Average Depth to Water: **246 feet**

Minimum Depth: **246 feet**

Maximum Depth: **246 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 660819.62 **Northing (Y):** 3594079.11 **Radius:** 804.67

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

7/22/20 12:20 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twsp	Rng	X	Y
	CP 01485 POD1	4	4	3	17	21S	36E	660749	3594154

Driller License: 1626 **Driller Company:** TAYLOR, ROY ALLEN

Driller Name: TAYLOR, ROY A.

Drill Start Date:	04/06/2015	**Drill Finish Date:**	04/08/2015	**Plug Date:**	
Log File Date:	04/20/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	50 GPM
Casing Size:	5.14	**Depth Well:**	305 feet	**Depth Water:**	246 feet

Water Bearing Stratifications:	Top	Bottom	Description
	220	285	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	245	305

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00281 POD1	3	1	1	20	21S	36E	660236	3593696*

Driller License: **Driller Company:**

Driller Name:

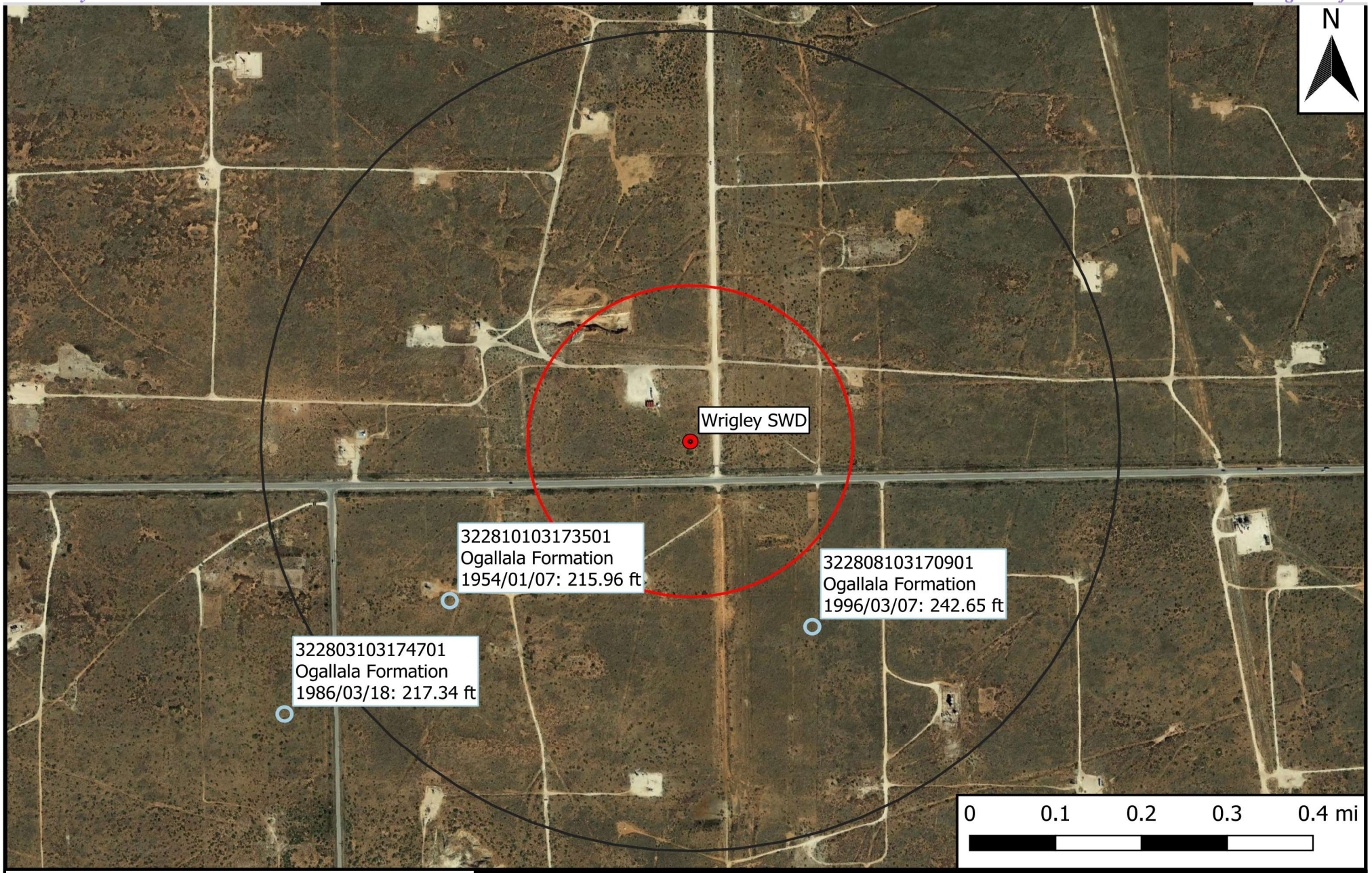
Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 8.00 **Depth Well:** 201 feet **Depth Water:**

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



Legend
- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5
USGS Well Proximity Map
Goodnight Midstream Permian, LLC
Wrigley SWD
GPS: 32.4723084, -103.2886783
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/20

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322808103170901

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

USGS 322808103170901 21S.36E.17.433333

Lea County, New Mexico
Latitude 32°28'08", Longitude 103°17'09" NAD27
Land-surface elevation 3,629 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) 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
1968-03-18		D	243.27			2		U		U	A
1970-12-15		D	243.07			2		U		U	A
1981-03-04		D	242.48			2		U		U	A
1986-03-18		D	242.47			2		U		U	A
1991-02-01		D	242.71			2		U		U	A
1996-03-07		D	242.65			2		S		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Subscribe for System Changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-07-22 14:13:05 EDT
3.9 0.26 nadww02

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322810103173501

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

USGS 322810103173501 21S.36E.20.11311

Lea County, New Mexico
Latitude 32°28'10", Longitude 103°17'35" NAD27
Land-surface elevation 3,629 feet above NAVD88
The depth of the well is 230 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) 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
1954-01-07		D	215.96			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Pr
4.08 0.26 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322803103174701

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

USGS 322803103174701 21S.36E.19.221422

Lea County, New Mexico
Latitude 32°28'03", Longitude 103°17'47" NAD27
Land-surface elevation 3,634 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) 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
1970-12-11		D	225.82			2		U		U	A
1976-01-22		D	216.88			2		U		U	A
1976-06-30		D	216.55			2		U		U	A
1981-03-04		D	216.91			2		U		U	A
1986-03-18		D	217.34			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

U
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-07-22 14:13:05 EDT
5.54 0.31 nadww02

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 7-27-20

Project: Wrigley SWD

Project Number: 12795 Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
NCF #2@1'	none	184	
NCF #2@2'	none	7112	
NH@surface	none	7112	
NH@1'	none	7112	
EH@surface	none	7112	
EH@1'	none	184	
SH@surface	none	184	
SH@1'	none	7112	
WH@surface	none	276	
WH@1'	none	160	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 7.27.20

Project: Wrigley SWD

Project Number: 12795 Latitude: 32.4723084 Longitude: -103.2886783

Depth (ft. bgs)	Description
1	Imported Fill/ Caliche
2	Brown ~~Sand~~ sand
3	
4	
5	
6	
7	
8	
9	
10	
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Appendix C
Laboratory Analytical Reports

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Santos Montoya
Premier Energy Services
2815 W. Industrial Ave
Midland, TX 79701

Project: Goodnight Midstream - Wrigley SWD
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 9G05002

NELAP/TCEQ # T104704516-18-9

Report Date: 07/12/19

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NCF #1 @ 0-6"	9G05002-01	Soil	07/03/19 17:30	07-05-2019 08:01
NWCF #2 @ 0-6"	9G05002-02	Soil	07/03/19 17:30	07-05-2019 08:01
NWF #3 @ 0-6"	9G05002-03	Soil	07/03/19 17:30	07-05-2019 08:01
Electric Panel #4 @ 0-6"	9G05002-04	Soil	07/03/19 17:30	07-05-2019 08:01
Trans Smp #5 @ 0-6"	9G05002-05	Soil	07/03/19 17:30	07-05-2019 08:01
West Center #7 @ 0-6"	9G05002-06	Soil	07/03/19 17:30	07-05-2019 08:01
South Center #8 @ 0-6"	9G05002-07	Soil	07/03/19 17:30	07-05-2019 08:01
Center #9 @ 0-6"	9G05002-08	Soil	07/03/19 17:30	07-05-2019 08:01
Center #10 @ 0-6"	9G05002-09	Soil	07/03/19 17:30	07-05-2019 08:01
Discharge SMP #11 @ 0-6"	9G05002-10	Soil	07/03/19 17:30	07-05-2019 08:01
South East SMP #12 @ 0-6"	9G05002-11	Soil	07/03/19 17:30	07-05-2019 08:01
NE SMP #13 @ 0-6"	9G05002-12	Soil	07/03/19 17:30	07-05-2019 08:01
NE SMP #14 @ 0-6"	9G05002-13	Soil	07/03/19 17:30	07-05-2019 08:01

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NCF #1 @ 0-6"

9G05002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10900**	54.9	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NWCF #2 @ 0-6"

9G05002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8840**	27.5	mg/kg dry	25	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NWF #3 @ 0-6''

9G05002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14500**	54.3	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Electric Panel #4 @ 0-6"

9G05002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**21200**	54.3	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Trans Smp #5 @ 0-6''

9G05002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9320**	51.5	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

West Center #7 @ 0-6"

9G05002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**20300**	54.3	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

South Center #8 @ 0-6"

9G05002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**12800**	51.5	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Center #9 @ 0-6"

9G05002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**28700**	52.1	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Center #10 @ 0-6''

9G05002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**17300**	52.6	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Discharge SMP #11 @ 0-6"

9G05002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15800**	55.6	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

South East SMP #12 @ 0-6''

9G05002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**18500**	56.2	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE SMP #13 @ 0-6"

9G05002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16700**	51.0	mg/kg dry	50	P9G1010	07/10/19	07/11/19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE SMP #14 @ 0-6"

9G05002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19700**	51.5	mg/kg dry	50	P9G1111	07/11/19	07/11/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9G0803	07/08/19	07/08/19	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G0803 - * DEFAULT PREP *** **										
Blank (P9G0803-BLK1)				Prepared & Analyzed: 07/08/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0803-DUP1)		**Source: 9G05002-13**		Prepared & Analyzed: 07/08/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P9G1010 - * DEFAULT PREP *** **										
Blank (P9G1010-BLK1)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G1010-BS1)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	196	1.00	mg/kg wet	200		98.0	80-120			
LCS Dup (P9G1010-BSD1)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	190	1.00	mg/kg wet	200		95.2	80-120	2.85	20	
Calibration Blank (P9G1010-CCB1)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9G1010-CCB2)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G1010-CCV1)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	9.68		mg/kg	10.0		96.8	0-200			
Calibration Check (P9G1010-CCV2)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	10.1		mg/kg	10.0		101	0-200			

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G1010 - * DEFAULT PREP *** **										
Calibration Check (P9G1010-CCV3)				Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	10.1		mg/kg	10.0		101	0-200			
Matrix Spike (P9G1010-MS1)		**Source: 9G03002-21**		Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	27200	51.5	mg/kg dry	5150	21300	114	80-120			
Matrix Spike (P9G1010-MS2)		**Source: 9G05002-03**		Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	19700	54.3	mg/kg dry	5430	14500	96.9	80-120			
Matrix Spike Dup (P9G1010-MSD1)		**Source: 9G03002-21**		Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	27100	51.5	mg/kg dry	5150	21300	113	80-120	0.305	20	
Matrix Spike Dup (P9G1010-MSD2)		**Source: 9G05002-03**		Prepared: 07/10/19 Analyzed: 07/11/19						
Chloride	19400	54.3	mg/kg dry	5430	14500	90.8	80-120	1.71	20	
Batch P9G1111 - * DEFAULT PREP *** **										
Blank (P9G1111-BLK1)				Prepared & Analyzed: 07/11/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G1111-BS1)				Prepared & Analyzed: 07/11/19						
Chloride	195	1.00	mg/kg wet	200		97.4	80-120			
LCS Dup (P9G1111-BSD1)				Prepared & Analyzed: 07/11/19						
Chloride	200	1.00	mg/kg wet	200		100	80-120	2.82	20	
Calibration Blank (P9G1111-CCB1)				Prepared & Analyzed: 07/11/19						
Chloride	0.00		mg/kg wet							

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G1111 - * DEFAULT PREP *** **										
Calibration Blank (P9G1111-CCB2)				Prepared & Analyzed: 07/11/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G1111-CCV1)				Prepared & Analyzed: 07/11/19						
Chloride	10.1		mg/kg	10.0		101	0-200			
Calibration Check (P9G1111-CCV2)				Prepared & Analyzed: 07/11/19						
Chloride	9.60		mg/kg	10.0		96.0	0-200			
Calibration Check (P9G1111-CCV3)				Prepared: 07/11/19 Analyzed: 07/12/19						
Chloride	10.1		mg/kg	10.0		101	0-200			
Matrix Spike (P9G1111-MS1)		**Source: 9G11003-01**		Prepared & Analyzed: 07/11/19						
Chloride	573	1.00	mg/kg dry	500	58.9	103	80-120			
Matrix Spike (P9G1111-MS2)		**Source: 9G09022-02**		Prepared & Analyzed: 07/11/19						
Chloride	14800	57.5	mg/kg dry	5750	9610	89.7	80-120			
Matrix Spike Dup (P9G1111-MSD1)		**Source: 9G11003-01**		Prepared & Analyzed: 07/11/19						
Chloride	541	1.00	mg/kg dry	500	58.9	96.4	80-120	5.72	20	
Matrix Spike Dup (P9G1111-MSD2)		**Source: 9G09022-02**		Prepared & Analyzed: 07/11/19						
Chloride	15100	57.5	mg/kg dry	5750	9610	95.1	80-120	2.10	20	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Notes and Definitions

BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/12/2019

Brent Barron, Laboratory Director/Technical Director

1/2

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Santos Montoya
Company Name: Goodnight Midstream
Company Address: 5910 North Central Expressway Suite 850
City/State/Zip: Dallas Texas 75206
Telephone No: 214-347 4450
Sampler Signature: Santos Mont

Project Name: Wrigley SWD
Project #:
Project Loc: Lea County
PO #:
Fax No:
e-mail:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 9608002

	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005	TCLP: TX 1006	TCLP: Anions (Cl, SO4, Alkalinity)	TOTAL: BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	NCF #1	0	6"	7/3/19 @ 6:44 AM 7/4	5:30pm		1	X								S			X			X
2	NWCF #2																					
3	NWF #3																					
4	Electric Panel #4																					
5	Trans Smp #5																					
6	West Center #7																					
7	South Center #8																					
8	Center #9																					
9	Center #10																					
10	Discharge Smp #11																					

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Santos Mont	7/5/19	0730			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				7/5/19	730

Laboratory Comments:
Sample Hand Delivered by Sampler/Client Rep. ☐ Y ☐ N
Sample Received on Ice ☐ Y ☐ N
Temperature Upon Receipt: °C
Received Adjusted °C

2/2

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Santos Montoya

Company Name: Goodnight Midstream

Company Address: 5910 North Central Expressway Suite 850

City/State/Zip: Dallas Texas 75206

Telephone No: 214-347-4450

Fax No:

Sampler Signature: [signature]

e-mail:

Project Name: Wrigley SWD

Project #:

Project Loc: Lea County

PO #:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 9G05002

Analyze For: TCLP: TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	SouthEast Smp #12	0	6"	7/3/19	530pm		1	1												X			X
12	NE SMP #13	↓	↓	↓	↓		1	1												↓			↓
13	NE SMP #14	↓	↓	↓	↓		1	1												↓			↓

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Santos Montoya	7/5/19	0730			
Relinquished by:	Date	Time	Received by:	Date	Time
			[signature]		
Relinquished by:	Date	Time	Received by PBELAB:	Date	Time
			[signature]	7/5/19	0730

Laboratory Comments:
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 5.6 °C
Adjusted: °C Factor: L2

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Santos Montoya
Premier Energy Services
2815 W. Industrial Ave
Midland, TX 79701

Project: Goodnight Midstream - Wrigley SWD
Project Number: [none]
Location: Eunice, NM

Lab Order Number: 9I12007

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-18-9

Report Date: 09/19/19

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SE #12 @ 12"	9I12007-01	Soil	09/11/19 11:05	09-12-2019 08:50
NE #13 @ 12"	9I12007-02	Soil	09/11/19 11:05	09-12-2019 08:50
NE #14 @ 12"	9I12007-03	Soil	09/11/19 11:05	09-12-2019 08:50

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

SE #12 @ 12''

9I12007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P9I1301	09/13/19	09/13/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.1 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/16/19	09/19/19	calc	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE #13 @ 12"

9I12007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**7.0**	0.1	%	1	P9I1301	09/13/19	09/13/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/16/19	09/19/19	calc	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE #14 @ 12"

9I12007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**11.0**	0.1	%	1	P9I1301	09/13/19	09/13/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P9I1611	09/16/19	09/19/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.9 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P9I1611*	*09/16/19*	*09/19/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	09/16/19	09/19/19	calc	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9I1301 - * DEFAULT PREP *** **										
Blank (P9I1301-BLK1)				Prepared & Analyzed: 09/13/19						
% Moisture	ND	0.1	%							
Duplicate (P9I1301-DUP1)		**Source: 9I12001-06**		Prepared & Analyzed: 09/13/19						
% Moisture	16.0	0.1	%		15.0			6.45	20	
Duplicate (P9I1301-DUP2)		**Source: 9I12001-01**		Prepared & Analyzed: 09/13/19						
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P9I1301-DUP3)		**Source: 9I12001-15**		Prepared & Analyzed: 09/13/19						
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P9I1301-DUP4)		**Source: 9I12001-28**		Prepared & Analyzed: 09/13/19						
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P9I1301-DUP5)		**Source: 9I12004-16**		Prepared & Analyzed: 09/13/19						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P9I1301-DUP6)		**Source: 9I12005-11**		Prepared & Analyzed: 09/13/19						
% Moisture	19.0	0.1	%		18.0			5.41	20	
Duplicate (P9I1301-DUP7)		**Source: 9I12005-38**		Prepared & Analyzed: 09/13/19						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P9I1301-DUP8)		**Source: 9I12012-01**		Prepared & Analyzed: 09/13/19						
% Moisture	ND	0.1	%		ND				20	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9I1611 - TX 1005										
Blank (P9I1611-BLK1)				Prepared: 09/16/19 Analyzed: 09/19/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*55.9*		*"*	*50.0*		*112*	*70-130*			
LCS (P9I1611-BS1)				Prepared: 09/16/19 Analyzed: 09/19/19						
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*53.1*		*"*	*50.0*		*106*	*70-130*			
LCS Dup (P9I1611-BSD1)				Prepared: 09/16/19 Analyzed: 09/19/19						
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	0.282	20	
>C12-C28	1090	25.0	"	1000		109	75-125	0.813	20	
Surrogate: 1-Chlorooctane	*123*		*"*	*100*		*123*	*70-130*			
Surrogate: o-Terphenyl	*54.7*		*"*	*50.0*		*109*	*70-130*			
Calibration Blank (P9I1611-CCB1)				Prepared: 09/16/19 Analyzed: 09/19/19						
C6-C12	8.09		mg/kg wet							
>C12-C28	21.5		"							
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		*"*	*50.0*		*112*	*70-130*			
Calibration Check (P9I1611-CCV1)				Prepared: 09/16/19 Analyzed: 09/19/19						
C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	503	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*49.7*		*"*	*50.0*		*99.3*	*70-130*			

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Notes and Definitions

ROI	Received on Ice
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/19/2019

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Santos Montoya
Company Name: Premier Energy Services
Company Address:
City/State/Zip:
Telephone No: 432-894-5441 Fax No:
Sampler Signature: Isaiah Montoya e-mail:

Project Name: Wrigley SWD
Project #:
Project Loc: Eunice NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 9II2007

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005	TOTAL: TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	SE #12	12"		9/11/19	11:05 AM					X						S	X				X
2	NE #13	12"		9/11/19	11:05 AM											S	X				
3	NE #14	12"		9/11/19	11:05 AM											S	X				

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Isaiah Montoya	9/11/19	8:50			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Myna Bedrosian	9/12/19	8:50

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep.?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.2 °C CF: 1
Adjusted: 5.2 °C Factor LZ

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Santos Montoya
Premier Energy Services
2815 W. Industrial Ave
Midland, TX 79701

Project: Goodnight Midstream - Wrigley SWD
Project Number: [none]
Location: Wrigley SWD

Lab Order Number: 0E20002

NELAP/TCEQ # T104704516-18-9

Report Date: 05/26/20

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NCF #1 @ 12"-14"	0E20002-01	Soil	05/19/20 15:06	05-20-2020 09:42
NWCF #2 @ 12"-14"	0E20002-02	Soil	05/19/20 15:12	05-20-2020 09:42
NWF #3 @ 12"-14"	0E20002-03	Soil	05/19/20 15:20	05-20-2020 09:42
Electic Panel # 4 @ 12"-14"	0E20002-04	Soil	05/19/20 15:29	05-20-2020 09:42
Trans SMP #5 @ 12"-14"	0E20002-05	Soil	05/19/20 15:36	05-20-2020 09:42
West Center #7 @ 12"-14"	0E20002-06	Soil	05/19/20 15:44	05-20-2020 09:42
South Center #8 @ 12"-14"	0E20002-07	Soil	05/19/20 15:56	05-20-2020 09:42
Center #9 @ 12"-14"	0E20002-08	Soil	05/19/20 16:08	05-20-2020 09:42
Center #10 @ 12"-14"	0E20002-09	Soil	05/19/20 16:20	05-20-2020 09:42
Discharge SMP #11 @ 12"-14"	0E20002-10	Soil	05/19/20 16:28	05-20-2020 09:42
SE SMP #12 @ 12"-14"	0E20002-11	Soil	05/19/20 16:36	05-20-2020 09:42
NE SMP #13 @ 12"-14"	0E20002-12	Soil	05/19/20 16:42	05-20-2020 09:42
NE SMP #14 @ 12"-14"	0E20002-13	Soil	05/19/20 16:50	05-20-2020 09:42

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NCF #1 @ 12"-14"

0E20002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**48.3**	1.09	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 01:51	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NWCF #2 @ 12''-14''

0E20002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1430**	5.43	mg/kg dry	5	P0E2112	05/21/20 15:54	05/22/20 02:07	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NWF #3 @ 12''-14''

0E20002-03 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**220**	1.08	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 02:55	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Electic Panel # 4 @ 12''-14''

0E20002-04 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**59.6**	1.09	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 03:10	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Trans SMP #5 @ 12"-14"

0E20002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**42.1**	1.08	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 03:26	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

West Center #7 @ 12"-14"

0E20002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**266**	1.08	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 03:42	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

South Center #8 @ 12''-14''

0E20002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**74.0**	1.06	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 03:58	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Center #9 @ 12''-14''

0E20002-08 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**31.1**	1.08	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 04:13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Center #10 @ 12"-14"

0E20002-09 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**63.7**	1.06	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 04:29	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Discharge SMP #11 @ 12"-14"

0E20002-10 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**22.3**	1.10	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 04:45	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

SE SMP #12 @ 12''-14''

0E20002-11 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**132**	1.09	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 05:32	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE SMP #13 @ 12"-14"

0E20002-12 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**97.8**	1.05	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 05:48	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

NE SMP #14 @ 12"-14"

0E20002-13 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**32.6**	1.04	mg/kg dry	1	P0E2112	05/21/20 15:54	05/22/20 06:04	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0E2103	05/21/20 09:40	05/21/20 09:45	ASTM D2216	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0E2103 - * DEFAULT PREP *** **										
Blank (P0E2103-BLK1)				Prepared & Analyzed: 05/21/20						
% Moisture	ND	0.1	%							
Duplicate (P0E2103-DUP1)		**Source: 0E20004-01**		Prepared & Analyzed: 05/21/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0E2103-DUP2)		**Source: 0E20010-06**		Prepared & Analyzed: 05/21/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0E2103-DUP3)		**Source: 0E20012-13**		Prepared & Analyzed: 05/21/20						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0E2103-DUP4)		**Source: 0E20015-01**		Prepared & Analyzed: 05/21/20						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Batch P0E2112 - * DEFAULT PREP *** **										
LCS (P0E2112-BS1)				Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	413	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0E2112-BSD1)				Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	408	1.00	mg/kg wet	400		102	80-120	1.31	20	
Calibration Check (P0E2112-CCV1)				Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	20.7		mg/kg	20.0		103	0-200			
Calibration Check (P0E2112-CCV2)				Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	21.1		mg/kg	20.0		105	0-200			

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0E2112 - * DEFAULT PREP *** **										
Calibration Check (P0E2112-CCV3)				Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	20.4		mg/kg	20.0		102	0-200			
Matrix Spike (P0E2112-MS1)		**Source: 0E20002-02**		Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	2020	5.43	mg/kg dry	543	1430	108	80-120			
Matrix Spike (P0E2112-MS2)		**Source: 0E20010-09**		Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	5380	10.3	mg/kg dry	1030	4250	110	80-120			
Matrix Spike Dup (P0E2112-MSD1)		**Source: 0E20002-02**		Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	2000	5.43	mg/kg dry	543	1430	105	80-120	0.646	20	
Matrix Spike Dup (P0E2112-MSD2)		**Source: 0E20010-09**		Prepared: 05/21/20 Analyzed: 05/22/20						
Chloride	5410	10.3	mg/kg dry	1030	4250	113	80-120	0.631	20	

Premier Energy Services	Project: Goodnight Midstream - Wrigley SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

Notes and Definitions

ROI	Received on Ice
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 5/26/2020

Brent Barron, Laboratory Director/Technical Director

LOS CK pg 1 of 2

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: Santos Montoya
Company Name: Premier Energy Services
Company Address:
City/State/Zip:
Telephone No:
Fax No:
Sampler Signature: [signature]
e-mail: SMontoya@premierenergypb.com

Project Name: Coolnight Midstream
Project #:
Project Loc: Wrigley SWD
PO #: Mike Wilson
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: OE20002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	NCF #1	12"	14"	5/19/20	3:06 pm													X			✓
2	NWCF #2				3:12 pm																
3	NWF #3				3:20 pm																
4	Electric panel #4				3:29 pm																
5	Trans SMP #5				3:36 pm																
6	West Center #7				3:44 pm																
7	South Center #8				3:56 pm																
8	Center #9				4:08 pm																
9	Center #10				4:20 pm																
10	Discharge SMP #11				4:28 pm																

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/20/20	9:42 AM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: [signature]	5/20/20	9:42

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 2 °C CF -2
Adjusted: °C Factor

pg 2062

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: Santos Montoya
Company Name: Premier Services
Company Address:
City/State/Zip:
Telephone No:
Fax No:
Sampler Signature: [signature]
e-mail:

Project Name: Goodnight Midstream
Project #:
Project Loc: Wrigley SWD
PO #: Mike Wilson
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: OE20002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260											RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	SE SMP # 12	12"	14"	5/19/20	4:36pm													X													✓
12	NE SMP # 13	|	|	| |	4:42pm													|													|
13	NE SMP # 14	|	|	| |	4:50pm													|													|

Analyze For: TCLP: TOTAL:

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Santos Montoya	5/20/20	9:42am			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: [signature]	5/20/20	9:41

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 5 °C CF+1
Adjusted: 6 °C Factor

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Certificate of Analysis Summary 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley SWD

Project Id: 12795
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Thu 07.30.2020 10:40
Report Date: 08.04.2020 22:20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	668591-001		668591-002		668591-003		668591-004		668591-005		668591-006	
	Field Id:	NH @ Surface		NH @ 1'		EH @ Surface		EH @ 1'		SH @ Surface		SH @ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00	
BTEX by EPA 8021B	Extracted:	08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00	
	Analyzed:	08.04.2020 02:03		08.04.2020 02:24		08.04.2020 02:44		08.04.2020 03:05		08.04.2020 03:25		08.04.2020 03:46	
	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	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00401	0.00401	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300	Extracted:	07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45	
	Analyzed:	07.30.2020 17:08		07.30.2020 17:14		07.30.2020 17:20		07.30.2020 17:26		07.30.2020 17:32		07.30.2020 17:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.00	5.00	<4.98	4.98	6.41	5.03	24.8	4.98	19.8	5.04	30.5 X	4.97
TPH By SW8015 Mod	Extracted:	07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00	
	Analyzed:	07.30.2020 22:57		07.30.2020 23:54		07.31.2020 00:13		07.31.2020 00:32		07.31.2020 00:51		07.31.2020 01:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley SWD

Project Id: 12795
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Thu 07.30.2020 10:40
Report Date: 08.04.2020 22:20
Project Manager: Jessica Kramer

Analysis Requested		Lab Id:	668591-007		668591-008		668591-009		668591-010			
		Field Id:	WH @ Surface		WH @ 1'		NCF #2 @ 1'		NCF #2 @ 2'			
		Depth:			1- ft		1- ft		2- ft			
		Matrix:	SOIL		SOIL		SOIL		SOIL			
		Sampled:	07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00		07.27.2020 00:00			
BTEX by EPA 8021B		Extracted:	08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00		08.03.2020 14:00			
		Analyzed:	08.04.2020 04:06		08.04.2020 04:26		08.04.2020 04:47		08.04.2020 05:07			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Toluene			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Ethylbenzene			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
m,p-Xylenes			<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399		
o-Xylene			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Total Xylenes			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Total BTEX			<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Chloride by EPA 300		Extracted:	07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45		07.30.2020 15:45			
		Analyzed:	07.30.2020 17:57		07.30.2020 18:03		07.30.2020 18:21		07.30.2020 18:27			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride			70.6	5.05	15.9	4.98	15.9	5.00	<5.03	5.03		
TPH By SW8015 Mod		Extracted:	07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00		07.30.2020 17:00			
		Analyzed:	07.31.2020 01:28		07.31.2020 01:47		07.31.2020 02:06		07.31.2020 06:48			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)			<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.0	50.0		
Diesel Range Organics (DRO)			<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)			<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.0	50.0		
Total TPH			<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.0	50.0		

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 668591

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wrigley SWD

12795

08.04.2020

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)

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08.04.2020

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **668591**
Wrigley SWD
Project Address: Lea County, NM

PM :

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) 668591. 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. 668591 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

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Sample Cross Reference 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ Surface	S	07.27.2020 00:00		668591-001
NH @ 1'	S	07.27.2020 00:00	1 ft	668591-002
EH @ Surface	S	07.27.2020 00:00		668591-003
EH @ 1'	S	07.27.2020 00:00	1 ft	668591-004
SH @ Surface	S	07.27.2020 00:00		668591-005
SH @ 1'	S	07.27.2020 00:00	1 ft	668591-006
WH @ Surface	S	07.27.2020 00:00		668591-007
WH @ 1'	S	07.27.2020 00:00	1 ft	668591-008
NCF #2 @ 1'	S	07.27.2020 00:00	1 ft	668591-009
NCF #2 @ 2'	S	07.27.2020 00:00	2 ft	668591-010

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley SWD

Project ID: *12795*
Work Order Number(s): *668591*

Report Date: *08.04.2020*
Date Received: *07.30.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133122 Chloride by EPA 300

Lab Sample ID 668591-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 668591-001, -002, -003, -004, -005, -006, -007, -008, -009, -010. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3133199 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 668591-008.

Batch: LBA-3133452 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 668591-005,668591-006,668591-010,668591-009,668591-007.

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **NH @ Surface** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-001 Date Collected: 07.27.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	07.30.2020 17:08	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.30.2020 22:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.30.2020 22:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.30.2020 22:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.30.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	07.30.2020 22:57	
o-Terphenyl	84-15-1	116	%	70-130	07.30.2020 22:57	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **NH @ Surface** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-001 Date Collected: 07.27.2020 00:00

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

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 08.03.2020 14:00 Basis: Wet Weight

Seq Number: 3133452

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.04.2020 02:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.04.2020 02:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.04.2020 02:03	
4-Bromofluorobenzene	460-00-4	124	%	70-130	08.04.2020 02:03	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **NH @ 1'** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-002 Date Collected: 07.27.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	07.30.2020 17:14	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.30.2020 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.30.2020 23:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.30.2020 23:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.30.2020 23:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	07.30.2020 23:54	
o-Terphenyl	84-15-1	119	%	70-130	07.30.2020 23:54	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**NH @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-002	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.04.2020 02:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.04.2020 02:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	128	%	70-130	08.04.2020 02:24	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.04.2020 02:24	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **EH @ Surface** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-003 Date Collected: 07.27.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.41**	5.03	mg/kg	07.30.2020 17:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.31.2020 00:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.31.2020 00:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.31.2020 00:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.31.2020 00:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.31.2020 00:13	
o-Terphenyl	84-15-1	121	%	70-130	07.31.2020 00:13	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**EH @ Surface**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-003	Date Collected:	07.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.04.2020 02:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.04.2020 02:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.04.2020 02:44	
4-Bromofluorobenzene	460-00-4	130	%	70-130	08.04.2020 02:44	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **EH @ 1'** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-004 Date Collected: 07.27.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.8**	4.98	mg/kg	07.30.2020 17:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.31.2020 00:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.31.2020 00:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.31.2020 00:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.31.2020 00:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	07.31.2020 00:32	
o-Terphenyl	84-15-1	119	%	70-130	07.31.2020 00:32	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**EH @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-004	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.04.2020 03:05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.04.2020 03:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	08.04.2020 03:05	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.04.2020 03:05	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **SH @ Surface** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-005 Date Collected: 07.27.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.8**	5.04	mg/kg	07.30.2020 17:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.31.2020 00:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.31.2020 00:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.31.2020 00:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.31.2020 00:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	07.31.2020 00:51	
o-Terphenyl	84-15-1	124	%	70-130	07.31.2020 00:51	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**SH @ Surface**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-005	Date Collected:	07.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.04.2020 03:25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.04.2020 03:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	135	%	70-130	08.04.2020 03:25	**
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.04.2020 03:25	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **SH @ 1'** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-006 Date Collected: 07.27.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**30.5**	4.97	mg/kg	07.30.2020 17:38	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.31.2020 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.31.2020 01:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.31.2020 01:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.31.2020 01:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	07.31.2020 01:10	
o-Terphenyl	84-15-1	117	%	70-130	07.31.2020 01:10	

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**SH @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-006	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.04.2020 03:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.04.2020 03:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.04.2020 03:46	
4-Bromofluorobenzene	460-00-4	136	%	70-130	08.04.2020 03:46	**

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Certificate of Analytical Results 668591

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **WH @ Surface** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-007 Date Collected: 07.27.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**70.6**	5.05	mg/kg	07.30.2020 17:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.31.2020 01:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.31.2020 01:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.31.2020 01:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.31.2020 01:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	07.31.2020 01:28	
o-Terphenyl	84-15-1	120	%	70-130	07.31.2020 01:28	

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Wrigley SWD

Sample Id:	**WH @ Surface**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-007	Date Collected:	07.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.04.2020 04:06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.04.2020 04:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	132	%	70-130	08.04.2020 04:06	**
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.04.2020 04:06	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id: **WH @ 1'** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-008 Date Collected: 07.27.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.9**	4.98	mg/kg	07.30.2020 18:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.31.2020 01:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.31.2020 01:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.31.2020 01:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.31.2020 01:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	07.31.2020 01:47	**
o-Terphenyl	84-15-1	72	%	70-130	07.31.2020 01:47	

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Wrigley SWD

Sample Id:	**WH @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-008	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.04.2020 04:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.04.2020 04:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.04.2020 04:26	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.04.2020 04:26	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**NCF #2 @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-009	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.30.2020 15:45	Basis:	Wet Weight
Seq Number:	3133122				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.9**	5.00	mg/kg	07.30.2020 18:21		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.30.2020 17:00	Basis:	Wet Weight
Seq Number:	3133199				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.31.2020 02:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.31.2020 02:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.31.2020 02:06	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.31.2020 02:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	07.31.2020 02:06	
o-Terphenyl	84-15-1	119	%	70-130	07.31.2020 02:06	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**NCF #2 @ 1'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-009	Date Collected:	07.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.04.2020 04:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.04.2020 04:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	134	%	70-130	08.04.2020 04:47	**
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.04.2020 04:47	

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Wrigley SWD

Sample Id: **NCF #2 @ 2'** Matrix: Soil Date Received:07.30.2020 10:40

Lab Sample Id: 668591-010 Date Collected: 07.27.2020 00:00 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.30.2020 15:45 Basis: Wet Weight

Seq Number: 3133122

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	07.30.2020 18:27	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.30.2020 17:00 Basis: Wet Weight

Seq Number: 3133199

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.31.2020 06:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.31.2020 06:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.31.2020 06:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.31.2020 06:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	07.31.2020 06:48	
o-Terphenyl	84-15-1	129	%	70-130	07.31.2020 06:48	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley SWD

Sample Id:	**NCF #2 @ 2'**	Matrix:	Soil	Date Received:	07.30.2020 10:40
Lab Sample Id:	668591-010	Date Collected:	07.27.2020 00:00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.03.2020 14:00	Basis:	Wet Weight
Seq Number:	3133452				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.04.2020 05:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.04.2020 05:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.04.2020 05:07	
4-Bromofluorobenzene	460-00-4	140	%	70-130	08.04.2020 05:07	**

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 668591

Etech Environmental & Safety Solution, Inc

Wrigley SWD

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133122 — Matrix: Solid — Date Prep: 07.30.2020
MB Sample Id: 7708419-1-BLK — LCS Sample Id: 7708419-1-BKS — LCSD Sample Id: 7708419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	268	107	268	107	90-110	0	20	mg/kg	07.30.2020 16:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133122 — Matrix: Soil — Date Prep: 07.30.2020
Parent Sample Id: 668553-001 — MS Sample Id: 668553-001 S — MSD Sample Id: 668553-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	278	248	550	110	539	105	90-110	2	20	mg/kg	07.30.2020 16:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133122 — Matrix: Soil — Date Prep: 07.30.2020
Parent Sample Id: 668591-006 — MS Sample Id: 668591-006 S — MSD Sample Id: 668591-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.5	249	311	113	303	109	90-110	3	20	mg/kg	07.30.2020 17:44	X

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133199 — Matrix: Solid — Date Prep: 07.30.2020
MB Sample Id: 7708453-1-BLK — LCS Sample Id: 7708453-1-BKS — LCSD Sample Id: 7708453-1-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	942	94	1060	106	70-130	12	20	mg/kg	07.30.2020 22:20	
Diesel Range Organics (DRO)	<50.0	1000	890	89	1010	101	70-130	13	20	mg/kg	07.30.2020 22:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		126		124		70-130	%	07.30.2020 22:20
o-Terphenyl	113		125		130		70-130	%	07.30.2020 22:20

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133199 — Matrix: Solid — Date Prep: 07.30.2020
MB Sample Id: 7708453-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.30.2020 22:01	

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

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QC Summary 668591

Etech Environmental & Safety Solution, Inc

Wrigley SWD

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133199 — Matrix: Soil — Date Prep: 07.30.2020
Parent Sample Id: 668591-001 — MS Sample Id: 668591-001 S — MSD Sample Id: 668591-001 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	936	94	947	95	70-130	1	20	mg/kg	07.30.2020 23:16	
Diesel Range Organics (DRO)	<49.9	997	881	88	895	90	70-130	2	20	mg/kg	07.30.2020 23:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		129		70-130	%	07.30.2020 23:16
o-Terphenyl	125		124		70-130	%	07.30.2020 23:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133452 — Matrix: Solid — Date Prep: 08.03.2020
MB Sample Id: 7708650-1-BLK — LCS Sample Id: 7708650-1-BKS — LCSD Sample Id: 7708650-1-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	0.106	106	0.103	103	70-130	3	35	mg/kg	08.03.2020 23:41	
Toluene	<0.00200	0.100	0.103	103	0.0994	99	70-130	4	35	mg/kg	08.03.2020 23:41	
Ethylbenzene	<0.00200	0.100	0.103	103	0.0992	99	70-130	4	35	mg/kg	08.03.2020 23:41	
m,p-Xylenes	<0.00400	0.200	0.209	105	0.200	100	70-130	4	35	mg/kg	08.03.2020 23:41	
o-Xylene	<0.00200	0.100	0.103	103	0.0990	99	70-130	4	35	mg/kg	08.03.2020 23:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		98		97		70-130	%	08.03.2020 23:41
4-Bromofluorobenzene	111		108		106		70-130	%	08.03.2020 23:41

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133452 — Matrix: Soil — Date Prep: 08.03.2020
Parent Sample Id: 668591-001 — MS Sample Id: 668591-001 S — MSD Sample Id: 668591-001 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	0.0957	96	0.0879	89	70-130	8	35	mg/kg	08.03.2020 09:51	
Toluene	<0.00200	0.0998	0.0914	92	0.0810	82	70-130	12	35	mg/kg	08.03.2020 09:51	
Ethylbenzene	<0.00200	0.0998	0.0890	89	0.0758	76	70-130	16	35	mg/kg	08.03.2020 09:51	
m,p-Xylenes	<0.00399	0.200	0.188	94	0.161	81	70-130	15	35	mg/kg	08.03.2020 09:51	
o-Xylene	<0.00200	0.0998	0.0902	90	0.0780	79	70-130	15	35	mg/kg	08.03.2020 09:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		70-130	%	08.03.2020 09:51
4-Bromofluorobenzene	111		116		70-130	%	08.03.2020 09:51

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

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 1069591

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wright SWD	Turn Around	
Project Number:	12795	Routine:	☑
Project Location	Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	4.4°	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Wet Ice:	~~Yes~~ No
Cooler Custody Seals:	Yes No (N/A)	Thermometer ID	TR-E
Sample Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4
		Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
NH @ surface	Soil	7.27.20			1	X	X	X	
NH @ 1'	Soil	7.27.20		1'	1	X	X	X	
EH @ surface	Soil	7.27.20			1	X	X	X	
EH @ 1'	Soil	7.27.20		1'	1	X	X	X	
SH @ surface	Soil	7.27.20			1	X	X	X	
SH @ 1'	Soil	7.27.20		1'	1	X	X	X	
WH @ surface	Soil	7.27.20			1	X	X	X	
WH @	Soil	7.27.20		1'	1	X	X	X	
NCFH 2 @ 1'	Soil	7.27.20		1'	1	X	X	X	
NCFH 2 @ 2'	Soil	7.27.20		2'	1	X	X	X	

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Stephanie Rojas	3:30 7/29	2 Stephanie Rojas	7/30 1640	3:35 7/29
3			4		
5			6		

Revised Date 101419 Rev. 2019.1


ORIGIN ID:HOBA
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 29JUL20
ACTWGT: 34.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 24x13x13 IN
BILL THIRD PARTY
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
REF:
DEPT:
INV:
PO:
FedEx Express
THU - 30 JUL HOLD
PRIORITY OVERNIGHT
HLD
MAFA
TX-US LBB
TRK# 9061 5134 6452
0201
41 MAFA

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.30.2020 10.40.00 AM

Work Order #: 668591

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)?	4.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 07.30.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07.30.2020
Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: Down	
Photo Description: Aerial view of spill location.	

Photo Number: 2	
Photo Direction: South	
Photo Description: Release area.	

Photographic Log

Photo Number: 3	
Photo Direction: South	
Photo Description: Release area.	

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nDHR1922039043
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Albert Ochoa
Title: HSE Representative

Signature: Albert Ochoa
Date: 9/8/20

email: albert.ochoa@goodnightmidstream.com
Telephone: (432) 242-6629

OCD Only

Received by: Robert Hamlet
Date: 2/17/2021

- [X] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Robert Hamlet
Date: 2/17/2021

From:	Hamlet, Robert, EMNRD
To:	"albert.ochoa@goodnightmidstream.com"
Cc:	Bratcher, Mike, EMNRD; Eads, Cristina, EMNRD; Hensley, Chad, EMNRD
Subject:	Remediation Approval - Goodnight Midstream - Wrigley SWD - (Incident #NDHR1922039043)
Date:	Wednesday, February 17, 2021 2:06:00 PM
Attachments:	Remediation Approval - Goodnight Midstream - Wrigley SWD - (NDHR1922039043).pdf

Albert,

We have received your Workplan/Remediation Proposal for **Incident #NDHR1922039043 Wrigley SWD**, thank you. This Workplan/Remediation proposal is approved.

- A variance for a minimum of one (1) representative five-point composite excavation confirmation soil sample collected from the base of the excavation area representing every 500 square feet is approved.
- Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides.

Please let me know if you have any further questions.

Regards,

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

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 10059

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
GOODNIGHT MIDSTREAM PERMIAN, L 5910 North Central Expressway Suite 850 Dallas, TX75206	372311	10059	C-141

OCD Reviewer	Condition
rhamlet	We have received your Workplan/Remediation Proposal for Incident #NDHR1922039043 Wrigley SWD, thank you. This Workplan/Remediation proposal is approved.