Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2005560297
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?	~35.5 (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	nRM2005560297
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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: Rob Kirk Title: General Manager, HSE and Compliance

Signature: Date: 12/11/2020

email: rob.kirk@solarismidstream.com Telephone: 432-203-9020

OCD Only

Received by: Date:

Incident ID	nRM2005560297
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: Rob Kirk Title: General Manager, HSE and Compliance

Signature: RP Kirk Date: 12/11/2020

email: rob.kirk@solarismidstream.com Telephone: 432-203-9020

OCD Only

Received by: Chad Hensley Date: 02/26/2021

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

Signature: Chad Hensley Date: 02/26/2021

Site Assessment Report and Proposed Remediation Workplan

Solaris Water Midstream, LLC
Berry SWD
Eddy County, New Mexico
Unit Letter D, Section 20, Township 24 South, Range 29 East
Latitude 32.20896 North, Longitude 104.01385 West
NMOCD Reference No. nRM2005560297

Prepared By:

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

Matthew Grieco

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 Solaris Water Midstream, LLC, has prepared this Report for the Release Site known as the Berry SWD. Details of the release are summarized below:

Location of Release Source

Latitude: 32.20896 Longitude: -104.01385

Provided GPS are in WGS84 format.

Site Name:	Berry SWD	Site Type:	SWD
Date Release Discovered:	4/3/2020	API # (if applicable):	30-015-45367

Unit Letter	Section	Township	Range	County
D	20	24S	29E	Eddy

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name BERRY, CHESTER KENT & BERRY, BARBARA JEAN)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 52	Volume Recovered (bbls) 22
	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:
At our Berry SWD we had increased pressure on our lines as a customer turned on an extra pump increasing volume and pressure without alerting our operations team. This increase caused a separation of the fitting on a flange at a riser entering the facility and on our operation pad, inside our perimeter diking. Upon discovery, the line was turned-in, we alerted our customer to turn off the additional volume, and we tightened the valve flange stopping the release.

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. Groundwater gauging data from the nearest USGS Well (321234104005401) within 1/2 Mile radius suggests the depth to groundwater was 35.48 Ft as measured in 1975. USGS groundwater sampling data suggests USGS Well 321234104005401 exhibited chloride concentrations ranging from 19,900 to 26,000 mg/L during the last six (6) groundwater sampling events. It should be noted the USGS Well (321234104005401) is either incorrectly geolocated within the USGS National Water Information System or has since been plugged and abandoned; there is no water well in the vicinity of the provided location.

Additional USGS wells within 1/2 Mile radius were utilized to determine the probable minimum depth below any point within the horizontal boundary of the release to groundwater containing less than 10,000 mg/L TDS. Groundwater information is provided as Appendix A.

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS.	> 61 Ft.
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
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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, the presense of groundwater containing over 10,000 mg/L TDS between 35 and 61 Ft. bgs, 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 less than 10,000 mg/L	**Constituent**	**Method**	**Limit**
> 61 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 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 6th, 2020, Etech conducted an initial site assessment. 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. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data, twelve (12) delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', FL1 @ Surface, FL1 @ 4'-R, FL2 @ Surface, FL2 @ 1', FL3 @ Surface, and FL3 @ 4'-R) were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX and TPH concentration were below the applicable laboratory method detection limit (MDL) in each of the submitted soil samples with the exception of soil sample FL2 @ Surface, which exhibited a TPH concentration of 319 mg/kg. Analytical results indicated chloride concentrations ranged from 58.1 mg/kg in soil sample NH @ 1' to 6,110 mg/kg in soil sample FL3 @ Surface. Further advancement of the hand-augered soil bores was precluded due to the presence of an impenetrable rock layer.

On September 24, 2020, Etech revisited the Site. During the site visit, two (2) test trenches (STT and NTT) were advanced within the release margins in an effort to further investigate soil impacts from the release. During the advancement of the test trenches, two (2) soil samples (STT @ 5', and NTT @ 5') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Based on laboratory analytical results, soil within the release margins was not affected above the NMOCD Closure Criteria and the horizontal extent of impacted soil was adequately defined. 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, Solaris Water Midstream, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

• Utilizing mechanical equipment, excavate impacted material on the caliche well pad to an estimated depth of 1 Ft. bgs, or until laboratory analytical results from excavation confirmation soil samples collected from the floor of the excavation indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria, whichever is greater.
• Excavation sidewalls will be advanced until laboratory analytical results from excavation confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard, as necessary.
• Excavated soil will be transported to an NMOCD-permitted surface waste facility for disposal.
• Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area 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 200 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 120 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. The affected area was limited to an active production facility therefore reseeding will not be required. Final reclamation will be completed in accordance with NMAC 19.15.29.13 once the facility is no longer reasonably needed for production operations.

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.

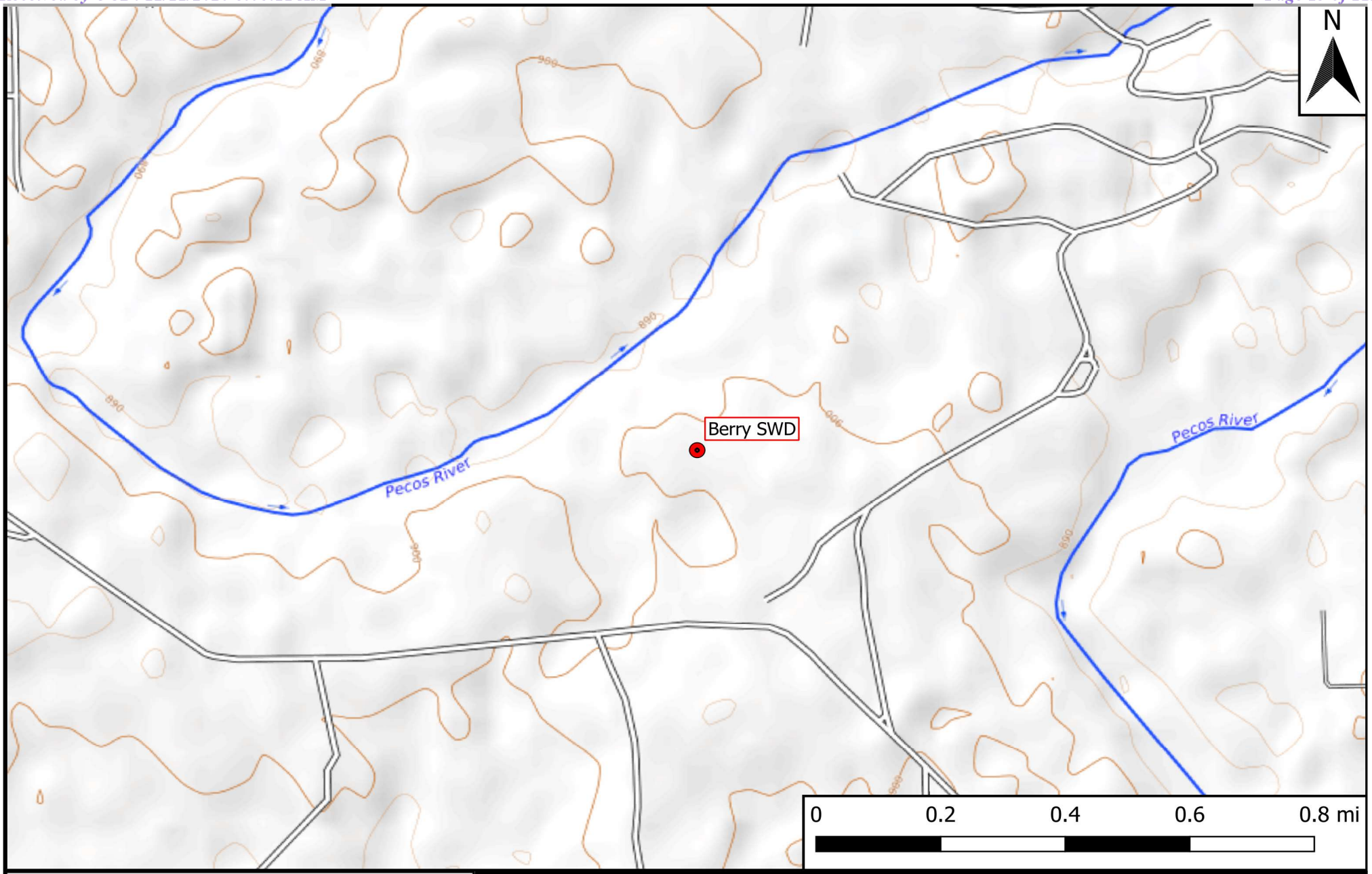
This report has been prepared for the benefit of Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

11.0 DISTRIBUTION

Solaris Water Midstream, LLC
907 Tradewinds Blvd
Ste B
Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Solaris Water Midstream, LLC

Berry SWD

GPS: 32.20896, -104.01385

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/20

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

Solaris Water Midstream, LLC

Berry SWD

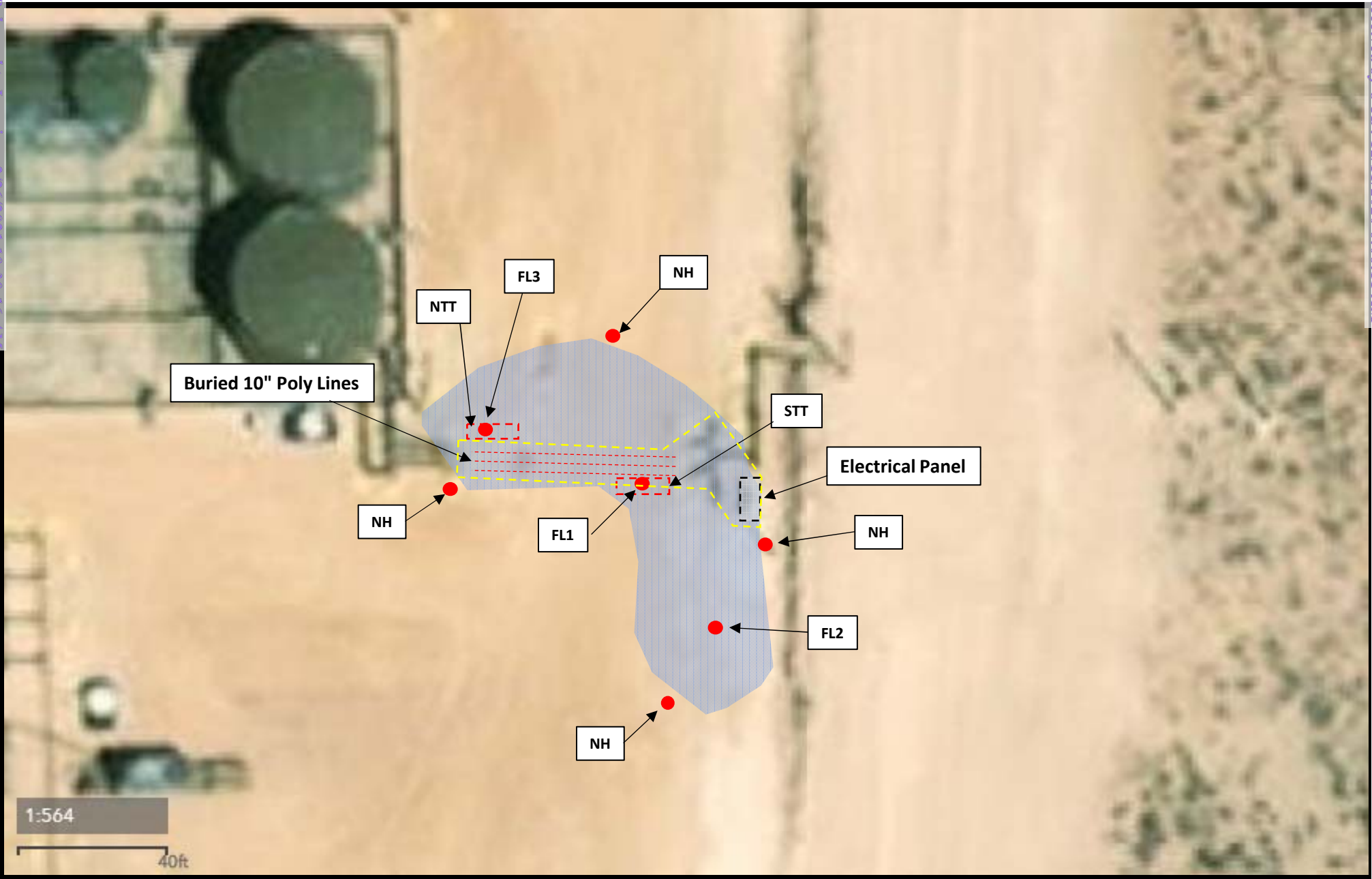
GPS: 32.20896, -104.01385

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/20

Figure 3
Site and Sample Location Map



Legend:

- Sample Point
- Affected Area
- Buried Pipeline
- Test Trench
- Area Proposed to be Deferred

Figure 3
Site and Sample Location Map
Solaris Water Midstream, LLC
Berry SWD
GPS: 32.20896, -104.01385
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: jwl Checked: lc Date: 10/2/20

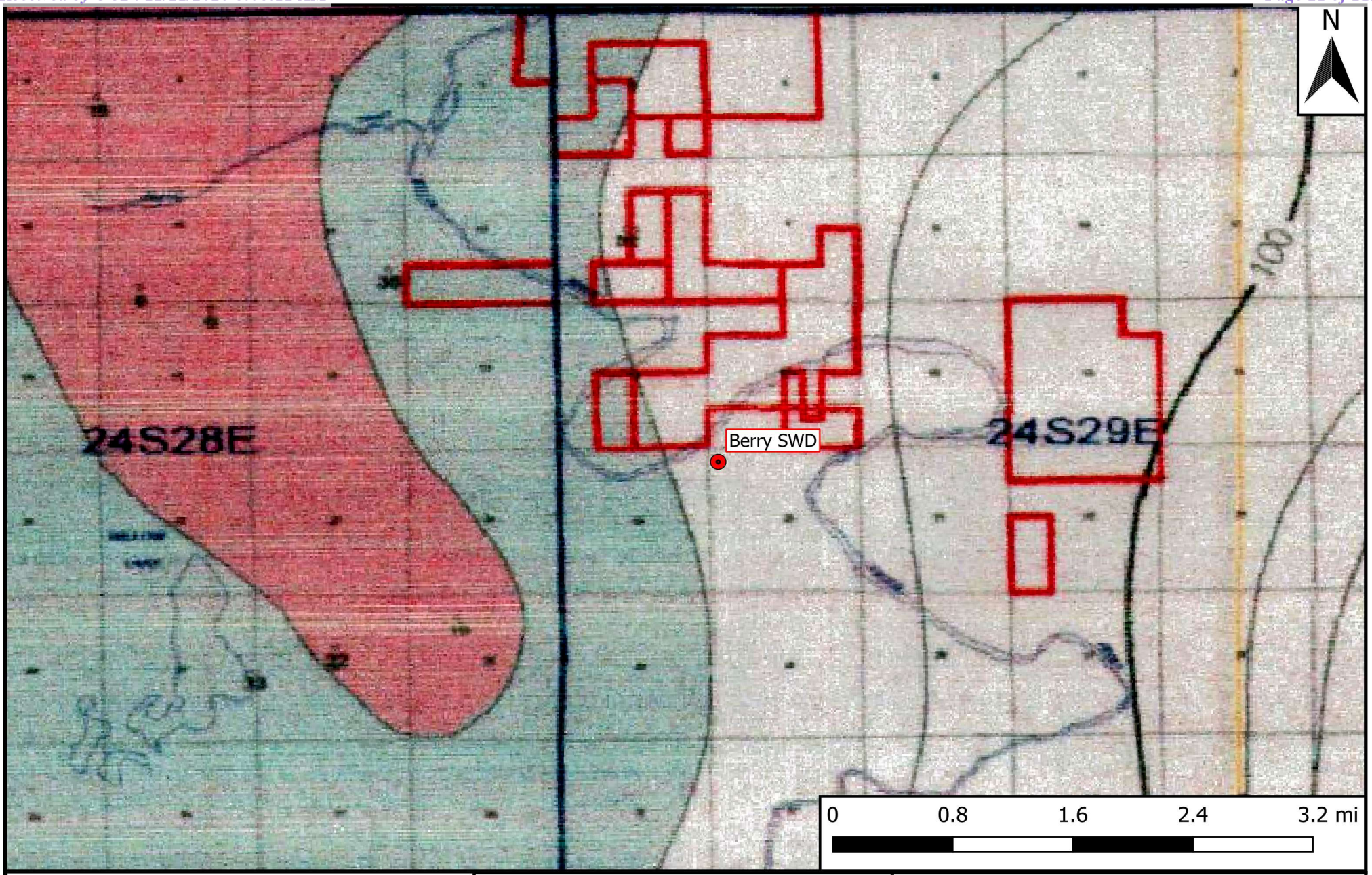
Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Solaris Water Midstream, LLC
Berry SWD
NMOCD Ref. #: nRM2005560297

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1000**	**-**	**2500**	**10000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
NH @ Surface	7/6/2020	0'	In-Situ	0.00666	0.03	<50.0	<50.0	<50.0	<50.0	<50.0	126
NH @ 1'	7/6/2020	1'	In-Situ	<0.00199	0.00218	<49.9	<49.9	<49.9	<49.9	<49.9	58.1
EH @ Surface	7/6/2020	0'	In-Situ	0.00662	0.0297	<49.8	<49.8	<49.8	<49.8	<49.8	111
EH @ 1'	7/6/2020	1'	In-Situ	0.00574	0.0237	<49.9	<49.9	<49.9	<49.9	<49.9	175
SH @ Surface	7/6/2020	0'	In-Situ	0.00707	0.0275	<50.0	<50.0	<50.0	<50.0	<50.0	118
SH @ 1'	7/6/2020	1'	In-Situ	0.00547	0.0228	<49.9	<49.9	<49.9	<49.9	<49.9	58.9
WH @ Surface	7/6/2020	0'	In-Situ	<0.00200	0.00455	<49.8	<49.8	<49.8	<49.8	<49.8	116
WH @ 1'	7/6/2020	1'	In-Situ	0.00411	0.0161	<50.0	<50.0	<50.0	<50.0	<50.0	65.6
FL1 @ Surface	7/6/2020	0'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	3,300
FL1 @ 4'-R	7/6/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	1,590
FL2 @ Surface	7/6/2020	0'	In-Situ	0.00869	0.0323	<49.8	238	238	81.2	319	1,570
FL2 @ 1'	7/6/2020	1'	In-Situ	0.00621	0.0235	<50.0	<50.0	<50.0	<50.0	<50.0	364
FL3 @ Surface	7/6/2020	0'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	6,110
FL3 @ 4'-R	7/6/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,710
STT @5'	9/24/2020	5'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	158
NTT @5'	9/24/2020	5'	In-Situ	<0.00196	<0.00196	<49.9	<49.9	<49.9	<49.9	<49.9	362

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

Appendix A
Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Solaris Water Midstream, LLC

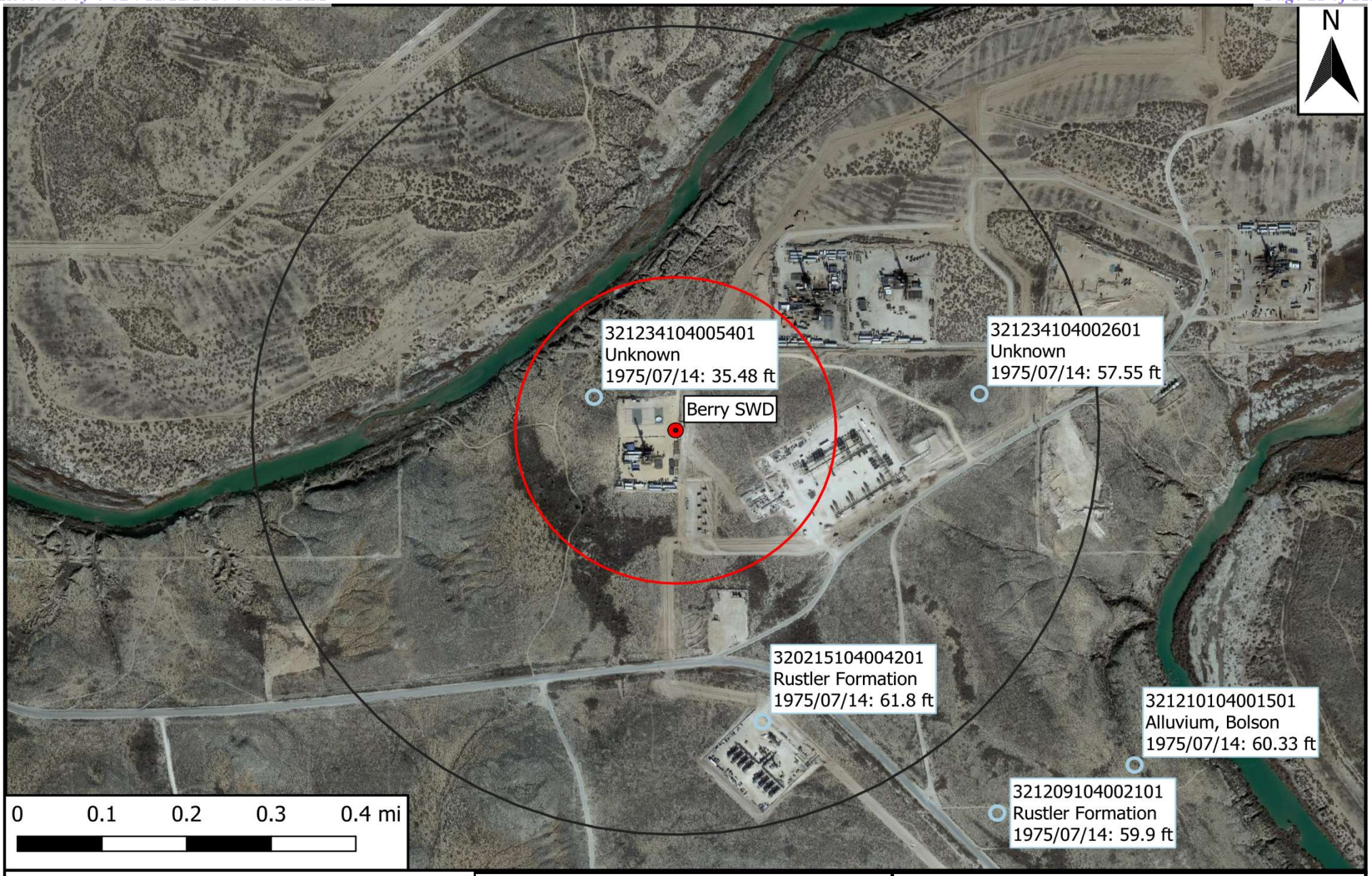
Berry SWD

GPS: 32.20896, -104.01385

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/20



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

Figure 5
USGS Well Proximity Map
Solaris Water Midstream, LLC
Berry SWD
GPS: 32.20896, -104.01385
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/20

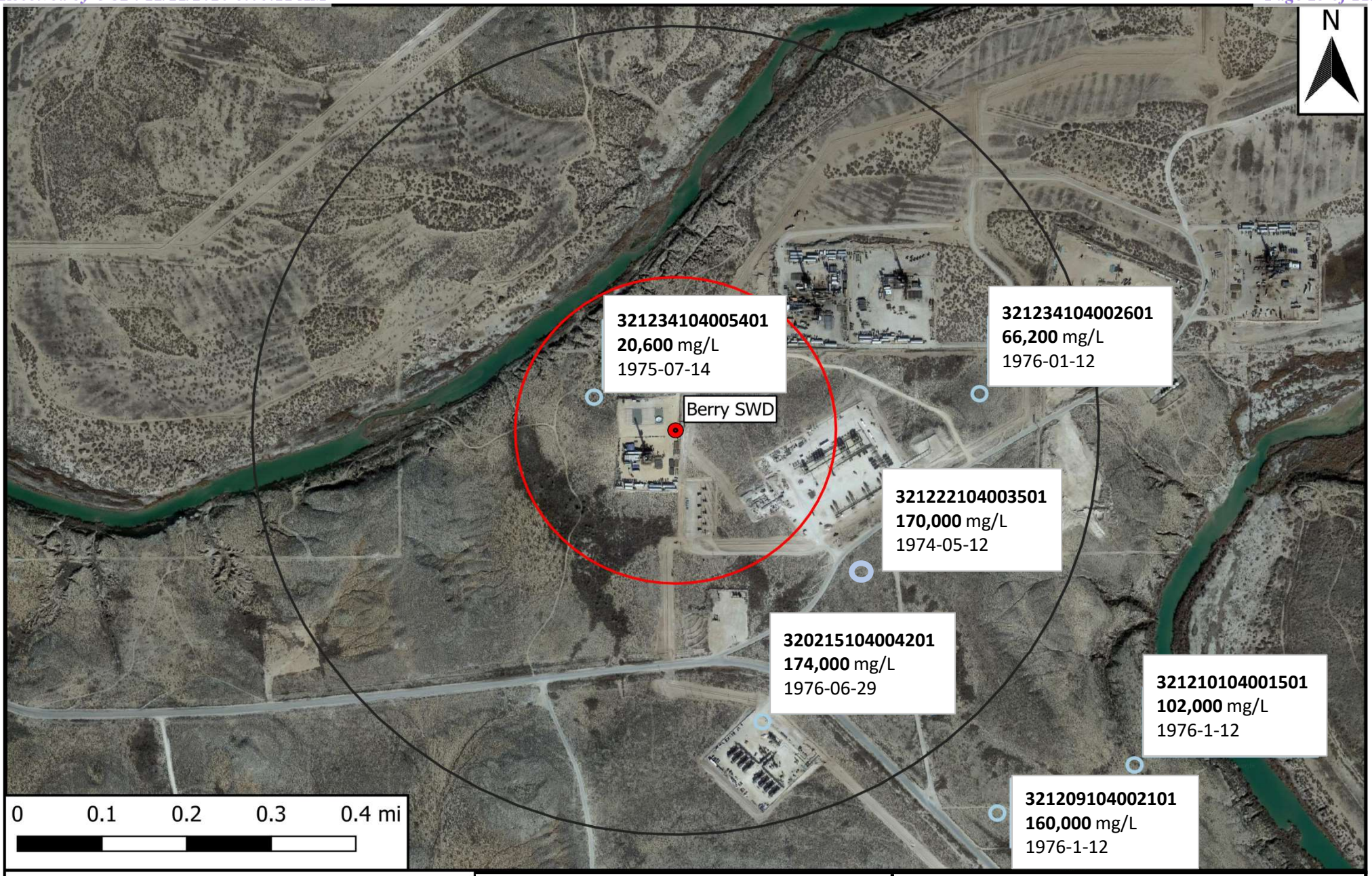


Figure 6
USGS Well Water Quality Map
Solaris Water Midstream, LLC
Berry SWD
GPS: 32.20896, -104.01385
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/2/20

National Water Information System: Web Interface

USGS Water Resources

Data Category: Water Quality | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.
Additional precautions are here.

USGS 321234104005401 24S.29E.19.222

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'34", Longitude 104°00'54" NAD27
Land-surface elevation 2,940 feet above NGVD29

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temper-ature, water, deg C (00010)	Specif-ic conduc-tance, wat unf uS/cm @ 25 degC (00095)	Chlor-ide, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)
1970-06-05 14:30	MDT	T	WG	20.5	61000	22800	1.0
1972-05-12 13:35	MDT	T	WG		55700	20900	1.0
1972-11-14 15:35	MST	T	WG		54800	19900	1.0
1974-07-23 11:05	MDT	T	WG	20.0	69700	26600	1.0

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)
1974-12-17 12:15	MST	T	WG	19.0	58200	21000	1.0
1975-07-14 15:25	MDT	T	WG	20.5	58000	20600	1.0

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Water Quality Samples for USA: Sample Data
URL: https://nwis.waterdata.usgs.gov/nwis/qwdata?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-09-30 12:55:58 EDT
43.77 0.4 nadww01

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Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.
Additional precautions are here.

USGS 321234104002601 24S.29E.20.122

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'34", Longitude 104°00'26" NAD27
Land-surface elevation 2,950 feet above NGVD29

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)
1970-06-05 14:10	MDT	T	WG	22.0	134000	62500	1.1
1972-05-12 11:55	MDT	T	WG		94400	38200	1.0
1972-11-14 13:50	MST	T	WG		97200	41000	1.0
1974-07-18 13:05	MDT	T	WG	21.5	114000	49800	1.1

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)
1974-12-17 10:55	MST	T	WG	19.5	116000	53500	1.1
1975-07-14 14:15	MDT	T	WG	22.0	120000	27800	1.1
1976-01-12 14:30	MST	T	WG	20.0	127000	66200	

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USGS 321222104003501 24S.29E.20.141

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'22", Longitude 104°00'35" NAD27
Land-surface elevation 2,970 feet above NGVD29
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)
1970-01-23 14:20	MST	T	WG	21.5	228000	181000	1.2
1970-06-05 15:30	MDT	T	WG	22.0	229000	181000	1.2
1972-05-12 11:35	MDT	T	WG		226000	170000	1.2

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USGS 320215104004201 24S.29E.20.134

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'13", Longitude 104°00'42" NAD27
Land-surface elevation 2,960 feet above NGVD29
This well is completed in the Culebra Dolomite Member of Rustler Formation (312CLBR) local aquifer.

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Hydrogen ion, water, unfltrd calcd, mg/L (00191)	pH, water, unfltrd field, std units (00400)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)	Depth of hole, feet below LSD (72001)
1970-01-23 15:40	MST	T	WG	21.5	225000			171000	1.2	
1970-06-05 15:15	MDT	T	WG	22.0	229000			175000	1.2	
1972-05-08 14:35	MDT	T	WG		223000			166000	1.2	
1972-11-13 11:55	MST	T	WG		223000			169000	1.2	
1974-07-18 14:15	MDT	T	WG	21.0	230000			173000	1.2	
1974-12-16 09:40	MST	T	WG	19.0	223000			173000	1.2	
1975-07-14 14:00	MDT	T	WG	22.0	225000			172000	1.2	
1976-01-12 11:35	MST	T	WG	21.0	224000			177000		
1976-06-29 09:45	MDT	T	WG	21.0	225000	0.00006	7.2	174000		

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Water Quality Samples for the Nation

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Additional precautions are here.

USGS 321210104001501 24S.29E.20.412

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'10", Longitude 104°00'15" NAD27
Land-surface elevation 2,949 feet above NGVD29
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)	Depth of hole, feet below LSD (72001)
1970-01-23 14:55	MST	T	WG	21.5	188000	106000	1.1	102
1970-06-05 13:15	MDT	T	WG	22.0	187000	105000	1.1	102
1972-05-12 11:05	MDT	T	WG		182000	101000	1.1	
1972-11-14 10:55	MST	T	WG		178000	98000	1.1	
1974-07-18 13:30	MDT	T	WG	21.5	182000	103000	1.1	
1974-12-17 11:25	MST	T	WG	19.5	181000	102000	1.1	
1975-07-14 14:50	MDT	T	WG		179000	99000	1.1	
1976-01-12 15:00	MST	T	WG	19.5	182000	102000		

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To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.
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USGS 321209104002101 24S.29E.20.322

Available data for this site | Water-Quality: Field/Lab samples | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'07", Longitude 104°00'25" NAD27
Land-surface elevation 2,955 feet above NGVD29
This well is completed in the Culebra Dolomite Member of Rustler Formation (312CLBR) local aquifer.

Output formats

Parameter Group Period of Record table
Inventory of available water-quality data for printing
Inventory of water-quality data with retrieval
Tab-separated data, one result per row
Tab-separated data one sample per row with remark codes combined with values
Tab-separated data one sample per row with tab-delimiter for remark codes
Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Temperature, water, deg C (00010)	Specific conductance, wat unf uS/cm @ 25 degC (00095)	Chloride, water, fltrd, mg/L (00940)	Density water unfltrd 20 degC g/mL (71820)	Depth of hole, feet below LSD (72001)
1970-01-23 14:35	MST	T	WG	21.5	217000	153000	1.2	96
1970-06-05 13:30	MDT	T	WG	22.0	220000	154000	1.2	96
1972-05-12 11:25	MDT	T	WG		214000	144000	1.2	
1972-11-14 11:15	MST	T	WG		216000	149000	1.2	
1974-07-18 13:25	MDT	T	WG	21.0	222000	149000	1.2	
1974-12-17 11:10	MST	T	WG	19.5	217000	152000	1.2	
1975-07-14 14:35	MDT	T	WG	21.5	219000	157000	1.2	
1976-01-12 14:45	MST	T	WG	19.5	219000	160000		

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Agency code = usgs
site_no list =
- 320215104004201

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

USGS 320215104004201 24S.29E.20.134

Eddy County, New Mexico
Latitude 32°12'13", Longitude 104°00'42" NAD27
Land-surface elevation 2,960 feet above NGVD29
This well is completed in the Culebra Dolomite Member of Rustler Formation (312CLBR) 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
1975-07-14		D	61.8			1		Z	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	1	Water level accuracy to nearest tenth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for the Nation

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

USGS 321209104002101 24S.29E.20.322

Eddy County, New Mexico
Latitude 32°12'07", Longitude 104°00'25" NAD27
Land-surface elevation 2,955 feet above NGVD29
This well is completed in the Culebra Dolomite Member of Rustler Formation (312CLBR) 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
1975-07-14		D	59.9			1		Z	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	1	Water level accuracy to nearest tenth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs
site_no list =
- 321210104001501

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

USGS 321210104001501 24S.29E.20.412

Eddy County, New Mexico
Latitude 32°12'10", Longitude 104°00'15" NAD27
Land-surface elevation 2,949 feet above NGVD29
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1974-12-17		D	59.66			2		Z	USGS	S	A
1975-07-14		D	60.33			2		Z	USGS	S	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	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

USGS 321234104002601 24S.29E.20.122

Eddy County, New Mexico
Latitude 32°12'34", Longitude 104°00'26" NAD27
Land-surface elevation 2,950 feet above NGVD29

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
1974-12-17		D	57.11			2		Z	USGS	S	A
1975-07-14		D	57.55			2		Z	USGS	S	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	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs
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- 321234104005401

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USGS 321234104005401 24S.29E.19.222

Eddy County, New Mexico
Latitude 32°12'34", Longitude 104°00'54" NAD27
Land-surface elevation 2,940 feet above NGVD29

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
1974-12-17		D	34.04			2		Z	USGS	S	A
1975-07-14		D	35.48			2		Z	USGS	S	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	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

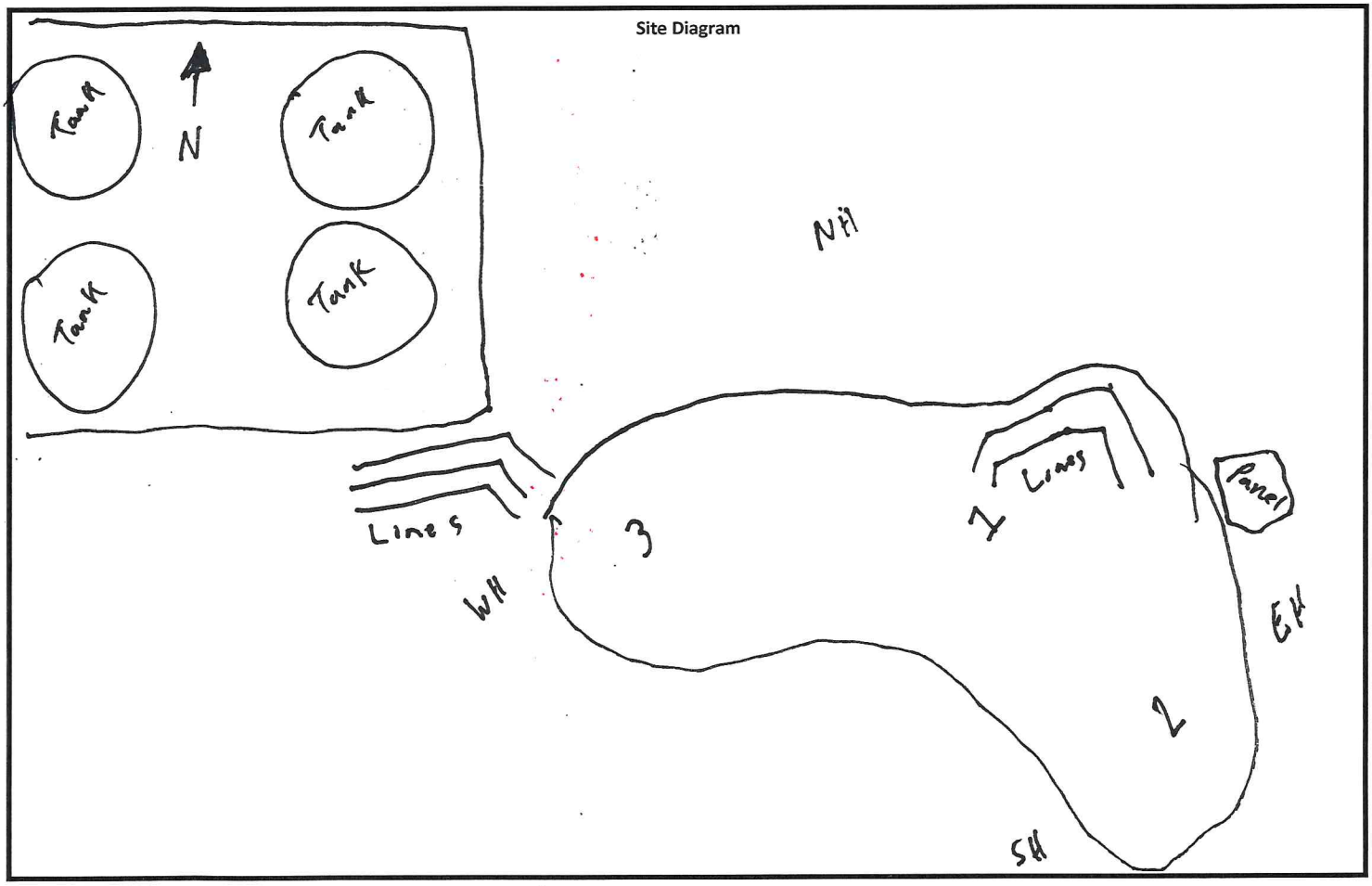
Initial Release Assessment Form

Date: 7.6.20

Project: Berry SWD | Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH

Project Number: Pending | Latitude: 32.20896 | Longitude: -104.01385

Site Diagram



Notes:

Hard surface, rocky, hard with Auger, Hard to see stain
Large poly lines

~Length: 25' ~Width: 25' ~Area: ~Depth: 4'

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☑	☐
Necessary Samples Field Screened and on Ice?	☑	☐
Sample and Field Screen Data Entered on Sample Log?	☑	☐
Was horizontal and vertical delineation achieved?	☑	☐

South Line – 3' - east side

Middle Line - 2'9" east side

North Line - 2'9" east side

South Line - 2'8" west side

North Line 3" westside

Southline 2'10 - middle

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 7.6.20

Project: Berry SWD

Project Number: Pending Latitude: 32.20896 Longitude: -104.01385

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@surface	None	9584 *	
FL1@1'-R	none	6260 *	
FL2@ surface	None	2768	
FL2@1'	none	3852 *	
FL2@2'	none	2232 *	
FL2@3'	None	2076 *	
FL2@4'-R	none	1692	
FL3@ surface	none	1300	
FL3@1'	none	536	
FL4@surface	none	1200 *	
FL4@1'-R	none	1692 *	
FL5@surface	none	2260	
FL5@1'	none	5316 *	
FL5@2'	none	4524 *	
FL5@3'	none	3852 *	
FL5@4'-R	none	2768	
NH@surface	none	284	
NH@1'	none	212	
EH@surface	none	360	
EH@1'	none	284	
SH@surface	none	212	
SH@1'	none	284	
WH@surface	none	360	
WH@1'	none	212	
TTS@5'	none	224	
TTN@5'	none	316	

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

*. Did NOT Go To LAB

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 7/6/20

Project: Berry SWD

Project Number: Pending Latitude: 32.20896 Longitude: -104.01385

Depth (ft. bgs)	Description
1	Caliche Pad
2	Red / Brown Dirt
3	" " "
4	" " "
5	Caliche Soil
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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Appendix C
Laboratory Analytical Reports

eurofins | Xenco

Certificate of Analysis Summary 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Berry SWD

Project Id: 12700
Contact: PM
Project Location: Eddy County (Loving, NM)

Date Received in Lab: Wed 07.08.2020 11:15
Report Date: 07.10.2020 16:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666538-001		666538-002		666538-003		666538-004		666538-005		666538-006	
	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:	07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00	
	Analyzed:	07.08.2020 16:32		07.08.2020 16:52		07.08.2020 17:13		07.08.2020 17:33		07.08.2020 17:54		07.08.2020 18:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.00666	0.00199	<0.00199	0.00199	0.00662	0.00200	0.00574	0.00200	0.00707	0.00201	0.00547	0.00200
Toluene		0.0233	0.00199	0.00218	0.00199	0.0231	0.00200	0.0180	0.00200	0.0204	0.00201	0.0173	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00400	0.00400	<0.00400	0.00400	<0.00402	0.00402	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		0.0300	0.00199	0.00218	0.00199	0.0297	0.00200	0.0237	0.00200	0.0275	0.00201	0.0228	0.00200
Chloride by EPA 300	***Extracted:***	07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:15	
	Analyzed:	07.09.2020 10:28		07.09.2020 10:33		07.09.2020 10:48		07.09.2020 10:53		07.09.2020 10:58		07.09.2020 11:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		126	25.2	58.1	24.8	111	25.3	175	25.3	118	25.3	58.9	25.0
TPH By SW8015 Mod	***Extracted:***	07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30	
	Analyzed:	07.09.2020 01:51		07.09.2020 02:48		07.09.2020 03:06		07.09.2020 03:25		07.09.2020 03:44		07.09.2020 04:03	
	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	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Berry SWD

Project Id: 12700
Contact: PM
Project Location: Eddy County (Loving, NM)

Date Received in Lab: Wed 07.08.2020 11:15
Report Date: 07.10.2020 16:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666538-007		666538-008		666538-009		666538-010		666538-011		666538-012	
	Field Id:	WH @ Surface		WH @ 1'		FL1 @ Surface		FL1 @ 4'-R		FL2 @ Surface		FL2 @ 1'	
	Depth:			1- ft				4- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00		07.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00		07.08.2020 14:00	
	Analyzed:	07.08.2020 18:35		07.08.2020 18:55		07.08.2020 19:16		07.08.2020 19:37		07.08.2020 20:59		07.08.2020 21:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	0.00411	0.00202	<0.00199	0.00199	<0.00201	0.00201	0.00869	0.00201	0.00621	0.00201
Toluene		0.00455	0.00200	0.0120	0.00202	<0.00199	0.00199	<0.00201	0.00201	0.0236	0.00201	0.0173	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00401	0.00401	<0.00404	0.00404	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		0.00455	0.00200	0.0161	0.00202	<0.00199	0.00199	<0.00201	0.00201	0.0323	0.00201	0.0235	0.00201
Chloride by EPA 300	***Extracted:***	07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:15		07.09.2020 08:30		07.09.2020 08:30		07.09.2020 08:30	
	Analyzed:	07.09.2020 11:08		07.09.2020 11:13		07.09.2020 11:18		07.09.2020 10:46		07.09.2020 11:05		07.09.2020 11:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		116	25.0	65.6	25.2	3300	24.9	1590	25.0	1570	50.2	364	25.0
TPH By SW8015 Mod	***Extracted:***	07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30		07.08.2020 16:30	
	Analyzed:	07.09.2020 04:21		07.09.2020 04:40		07.09.2020 04:58		07.09.2020 05:17		07.09.2020 05:54		07.09.2020 06:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	238	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	81.2	49.8	<50.0	50.0
Total TPH		<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	319	49.8	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Berry SWD

Project Id: 12700
Contact: PM
Project Location: Eddy County (Loving, NM)

Date Received in Lab: Wed 07.08.2020 11:15
Report Date: 07.10.2020 16:31
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	666538-013		666538-014			
	Field Id:	FL3 @ Surface		FL3 @ 4-'-R			
	Depth:			4- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	07.06.2020 00:00		07.06.2020 00:00			
BTEX by EPA 8021B	***Extracted:***	07.08.2020 14:00		07.08.2020 14:00			
	Analyzed:	07.08.2020 21:40		07.08.2020 22:00			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00198	0.00198	<0.00200	0.00200		
Toluene		<0.00198	0.00198	<0.00200	0.00200		
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200		
m,p-Xylenes		<0.00396	0.00396	<0.00399	0.00399		
o-Xylene		<0.00198	0.00198	<0.00200	0.00200		
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200		
Total BTEX		<0.00198	0.00198	<0.00200	0.00200		
Chloride by EPA 300	***Extracted:***	07.09.2020 08:30		07.09.2020 08:30			
	Analyzed:	07.09.2020 11:17		07.09.2020 11:24			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		6110	49.6	3710	50.5		
TPH By SW8015 Mod	***Extracted:***	07.08.2020 16:30		07.08.2020 16:30			
	Analyzed:	07.09.2020 06:30		07.09.2020 06:49			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0		
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0		
Total TPH		<49.9	49.9	<50.0	50.0		

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 666538

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Berry SWD

12700

07.10.2020

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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07.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **666538**
Berry SWD
Project Address: Eddy County (Loving, 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) 666538. 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. 666538 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

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Sample Cross Reference 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ Surface	S	07.06.2020 00:00		666538-001
NH @ 1'	S	07.06.2020 00:00	1 ft	666538-002
EH @ Surface	S	07.06.2020 00:00		666538-003
EH @ 1'	S	07.06.2020 00:00	1 ft	666538-004
SH @ Surface	S	07.06.2020 00:00		666538-005
SH @ 1'	S	07.06.2020 00:00	1 ft	666538-006
WH @ Surface	S	07.06.2020 00:00		666538-007
WH @ 1'	S	07.06.2020 00:00	1 ft	666538-008
FL1 @ Surface	S	07.06.2020 00:00		666538-009
FL1 @ 4'-R	S	07.06.2020 00:00	4 ft	666538-010
FL2 @ Surface	S	07.06.2020 00:00		666538-011
FL2 @ 1'	S	07.06.2020 00:00	1 ft	666538-012
FL3 @ Surface	S	07.06.2020 00:00		666538-013
FL3 @ 4-'-R	S	07.06.2020 00:00	4 ft	666538-014

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Berry SWD

Project ID: *12700*
Work Order Number(s): *666538*

Report Date: *07.10.2020*
Date Received: *07.08.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id: **NH @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-001 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:15 Basis: Wet Weight

Seq Number: 3131210

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**126**	25.2	mg/kg	07.09.2020 10:28		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 01:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 01:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 01:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 01:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	07.09.2020 01:51	
o-Terphenyl	84-15-1	103	%	70-130	07.09.2020 01:51	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**NH @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-001	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00666**	0.00199	mg/kg	07.08.2020 16:32		1
Toluene	108-88-3	**0.0233**	0.00199	mg/kg	07.08.2020 16:32		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 16:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 16:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 16:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 16:32	U	1
Total BTEX		**0.0300**	0.00199	mg/kg	07.08.2020 16:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	07.08.2020 16:32	
1,4-Difluorobenzene	540-36-3	122	%	70-130	07.08.2020 16:32	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**NH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-002	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:15	Basis:	Wet Weight
Seq Number:	3131210				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**58.1**	24.8	mg/kg	07.09.2020 10:33		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 02:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 02:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 02:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 02:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	07.09.2020 02:48	
o-Terphenyl	84-15-1	118	%	70-130	07.09.2020 02:48	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**NH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-002	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.08.2020 16:52	U	1
Toluene	108-88-3	**0.00218**	0.00199	mg/kg	07.08.2020 16:52		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 16:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 16:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 16:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 16:52	U	1
Total BTEX		**0.00218**	0.00199	mg/kg	07.08.2020 16:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.08.2020 16:52	
1,4-Difluorobenzene	540-36-3	116	%	70-130	07.08.2020 16:52	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id: **EH @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-003 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:15 Basis: Wet Weight

Seq Number: 3131210

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**111**	25.3	mg/kg	07.09.2020 10:48		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.09.2020 03:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.09.2020 03:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.09.2020 03:06	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.09.2020 03:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	07.09.2020 03:06	
o-Terphenyl	84-15-1	113	%	70-130	07.09.2020 03:06	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**EH @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-003	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00662**	0.00200	mg/kg	07.08.2020 17:13		1
Toluene	108-88-3	**0.0231**	0.00200	mg/kg	07.08.2020 17:13		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.08.2020 17:13	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.08.2020 17:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.08.2020 17:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.08.2020 17:13	U	1
Total BTEX		**0.0297**	0.00200	mg/kg	07.08.2020 17:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	07.08.2020 17:13	
4-Bromofluorobenzene	460-00-4	97	%	70-130	07.08.2020 17:13	

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Etech Environmental & Safety Solution, Inc, Midland, TX

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Sample Id:	**EH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-004	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:15	Basis:	Wet Weight
Seq Number:	3131210				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**175**	25.3	mg/kg	07.09.2020 10:53		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 03:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 03:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 03:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 03:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	07.09.2020 03:25	
o-Terphenyl	84-15-1	111	%	70-130	07.09.2020 03:25	

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Sample Id:	**EH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-004	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00574**	0.00200	mg/kg	07.08.2020 17:33		1
Toluene	108-88-3	**0.0180**	0.00200	mg/kg	07.08.2020 17:33		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.08.2020 17:33	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.08.2020 17:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.08.2020 17:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.08.2020 17:33	U	1
Total BTEX		**0.0237**	0.00200	mg/kg	07.08.2020 17:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	07.08.2020 17:33	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.08.2020 17:33	

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Sample Id: **SH @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-005 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:15 Basis: Wet Weight

Seq Number: 3131210

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	25.3	mg/kg	07.09.2020 10:58		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 03:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 03:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 03:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 03:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	07.09.2020 03:44	
o-Terphenyl	84-15-1	115	%	70-130	07.09.2020 03:44	

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Sample Id:	**SH @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-005	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00707**	0.00201	mg/kg	07.08.2020 17:54		1
Toluene	108-88-3	**0.0204**	0.00201	mg/kg	07.08.2020 17:54		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.2020 17:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.2020 17:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.2020 17:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.2020 17:54	U	1
Total BTEX		**0.0275**	0.00201	mg/kg	07.08.2020 17:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.08.2020 17:54	
1,4-Difluorobenzene	540-36-3	113	%	70-130	07.08.2020 17:54	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**SH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-006	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:15	Basis:	Wet Weight
Seq Number:	3131210				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**58.9**	25.0	mg/kg	07.09.2020 11:03		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 04:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 04:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 04:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 04:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	07.09.2020 04:03	
o-Terphenyl	84-15-1	128	%	70-130	07.09.2020 04:03	

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Berry SWD

Sample Id:	**SH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-006	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00547**	0.00200	mg/kg	07.08.2020 18:14		1
Toluene	108-88-3	**0.0173**	0.00200	mg/kg	07.08.2020 18:14		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.08.2020 18:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.08.2020 18:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.08.2020 18:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.08.2020 18:14	U	1
Total BTEX		**0.0228**	0.00200	mg/kg	07.08.2020 18:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	07.08.2020 18:14	
1,4-Difluorobenzene	540-36-3	110	%	70-130	07.08.2020 18:14	

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Berry SWD

Sample Id: **WH @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-007 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:15 Basis: Wet Weight

Seq Number: 3131210

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**116**	25.0	mg/kg	07.09.2020 11:08		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.09.2020 04:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.09.2020 04:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.09.2020 04:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.09.2020 04:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	07.09.2020 04:21	
o-Terphenyl	84-15-1	109	%	70-130	07.09.2020 04:21	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**WH @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-007	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.08.2020 18:35	U	1
Toluene	108-88-3	**0.00455**	0.00200	mg/kg	07.08.2020 18:35		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.08.2020 18:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.08.2020 18:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.08.2020 18:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.08.2020 18:35	U	1
Total BTEX		**0.00455**	0.00200	mg/kg	07.08.2020 18:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	07.08.2020 18:35	
1,4-Difluorobenzene	540-36-3	110	%	70-130	07.08.2020 18:35	

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Berry SWD

Sample Id:	**WH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-008	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:15	Basis:	Wet Weight
Seq Number:	3131210				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**65.6**	25.2	mg/kg	07.09.2020 11:13		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 04:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 04:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 04:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 04:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	07.09.2020 04:40	
o-Terphenyl	84-15-1	117	%	70-130	07.09.2020 04:40	

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Berry SWD

Sample Id:	**WH @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-008	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00411**	0.00202	mg/kg	07.08.2020 18:55		1
Toluene	108-88-3	**0.0120**	0.00202	mg/kg	07.08.2020 18:55		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.08.2020 18:55	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.08.2020 18:55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.08.2020 18:55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.08.2020 18:55	U	1
Total BTEX		**0.0161**	0.00202	mg/kg	07.08.2020 18:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	07.08.2020 18:55	
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.08.2020 18:55	

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Berry SWD

Sample Id: **FL1 @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-009 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:15 Basis: Wet Weight

Seq Number: 3131210

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3300**	24.9	mg/kg	07.09.2020 11:18		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 04:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 04:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 04:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 04:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	07.09.2020 04:58	
o-Terphenyl	84-15-1	119	%	70-130	07.09.2020 04:58	

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Sample Id:	**FL1 @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-009	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 19:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.08.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	07.08.2020 19:16	
4-Bromofluorobenzene	460-00-4	100	%	70-130	07.08.2020 19:16	

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Sample Id:	**FL1 @ 4'-R**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-010	Date Collected:	07.06.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:30	Basis:	Wet Weight
Seq Number:	3131215				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1590**	25.0	mg/kg	07.09.2020 10:46		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 05:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 05:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 05:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	07.09.2020 05:17	
o-Terphenyl	84-15-1	117	%	70-130	07.09.2020 05:17	

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Berry SWD

Sample Id:	**FL1 @ 4'-R**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-010	Date Collected:	07.06.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.2020 19:37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.2020 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.08.2020 19:37	
4-Bromofluorobenzene	460-00-4	98	%	70-130	07.08.2020 19:37	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id: **FL2 @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-011 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:30 Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1570**	50.2	mg/kg	07.09.2020 11:05		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.09.2020 05:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**238**	49.8	mg/kg	07.09.2020 05:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**81.2**	49.8	mg/kg	07.09.2020 05:54		1
Total TPH	PHC635	**319**	49.8	mg/kg	07.09.2020 05:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	07.09.2020 05:54	
o-Terphenyl	84-15-1	118	%	70-130	07.09.2020 05:54	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**FL2 @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-011	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00869**	0.00201	mg/kg	07.08.2020 20:59		1
Toluene	108-88-3	**0.0236**	0.00201	mg/kg	07.08.2020 20:59		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.2020 20:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.2020 20:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.2020 20:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.2020 20:59	U	1
Total BTEX		**0.0323**	0.00201	mg/kg	07.08.2020 20:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	07.08.2020 20:59	
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.08.2020 20:59	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**FL2 @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-012	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:30	Basis:	Wet Weight
Seq Number:	3131215				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**364**	25.0	mg/kg	07.09.2020 11:11		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 06:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 06:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 06:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 06:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	07.09.2020 06:12	
o-Terphenyl	84-15-1	105	%	70-130	07.09.2020 06:12	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**FL2 @ 1'**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-012	Date Collected:	07.06.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00621**	0.00201	mg/kg	07.08.2020 21:19		1
Toluene	108-88-3	**0.0173**	0.00201	mg/kg	07.08.2020 21:19		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.2020 21:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.2020 21:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.2020 21:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.2020 21:19	U	1
Total BTEX		**0.0235**	0.00201	mg/kg	07.08.2020 21:19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	07.08.2020 21:19	
1,4-Difluorobenzene	540-36-3	111	%	70-130	07.08.2020 21:19	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id: **FL3 @ Surface** Matrix: Soil Date Received:07.08.2020 11:15

Lab Sample Id: 666538-013 Date Collected: 07.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.09.2020 08:30 Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6110**	49.6	mg/kg	07.09.2020 11:17		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

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

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 06:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 06:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	07.09.2020 06:30	
o-Terphenyl	84-15-1	115	%	70-130	07.09.2020 06:30	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**FL3 @ Surface**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-013	Date Collected:	07.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.08.2020 21:40	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.08.2020 21:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.08.2020 21:40	
1,4-Difluorobenzene	540-36-3	113	%	70-130	07.08.2020 21:40	

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Berry SWD

Sample Id:	**FL3 @ 4-'-R**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-014	Date Collected:	07.06.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.09.2020 08:30	Basis:	Wet Weight
Seq Number:	3131215				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3710**	50.5	mg/kg	07.09.2020 11:24		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.09.2020 06:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.09.2020 06:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.09.2020 06:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.09.2020 06:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	07.09.2020 06:49	
o-Terphenyl	84-15-1	119	%	70-130	07.09.2020 06:49	

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Certificate of Analytical Results 666538

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**FL3 @ 4-'-R**	Matrix:	Soil	Date Received:	07.08.2020 11:15
Lab Sample Id:	666538-014	Date Collected:	07.06.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	AMF	Date Prep:	07.08.2020 14:00	Basis:	Wet Weight
Seq Number:	3131097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.08.2020 22:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.08.2020 22:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.08.2020 22:00	
1,4-Difluorobenzene	540-36-3	116	%	70-130	07.08.2020 22:00	

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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 666538

Etech Environmental & Safety Solution, Inc

Berry SWD

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131210 — Matrix: Solid — Date Prep: 07.09.2020
MB Sample Id: 7706987-1-BLK — LCS Sample Id: 7706987-1-BKS — LCSD Sample Id: 7706987-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	258	103	258	103	90-110	0	20	mg/kg	07.09.2020 08:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131215 — Matrix: Solid — Date Prep: 07.09.2020
MB Sample Id: 7706988-1-BLK — LCS Sample Id: 7706988-1-BKS — LCSD Sample Id: 7706988-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	246	98	90-110	0	20	mg/kg	07.09.2020 10:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131210 — Matrix: Soil — Date Prep: 07.09.2020
Parent Sample Id: 666529-012 — MS Sample Id: 666529-012 S — MSD Sample Id: 666529-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	161	248	427	107	421	105	90-110	1	20	mg/kg	07.09.2020 09:07	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131210 — Matrix: Soil — Date Prep: 07.09.2020
Parent Sample Id: 666529-022 — MS Sample Id: 666529-022 S — MSD Sample Id: 666529-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	224	250	486	105	487	105	90-110	0	20	mg/kg	07.09.2020 10:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131215 — Matrix: Soil — Date Prep: 07.09.2020
Parent Sample Id: 666538-010 — MS Sample Id: 666538-010 S — MSD Sample Id: 666538-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1590	1250	2960	110	2950	109	90-110	0	20	mg/kg	07.09.2020 10:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131215 — Matrix: Soil — Date Prep: 07.09.2020
Parent Sample Id: 666539-006 — MS Sample Id: 666539-006 S — MSD Sample Id: 666539-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.27	248	263	104	263	104	90-110	0	20	mg/kg	07.09.2020 12:21	

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

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QC Summary 666538

Etech Environmental & Safety Solution, Inc

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Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131136 — Matrix: Solid — Date Prep: 07.08.2020
MB Sample Id: 7706973-1-BLK — LCS Sample Id: 7706973-1-BKS — LCSD Sample Id: 7706973-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1100	110	70-130	1	20	mg/kg	07.09.2020 01:13	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1110	111	70-130	0	20	mg/kg	07.09.2020 01:13	

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

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

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

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131136 — Matrix: Soil — Date Prep: 07.08.2020
Parent Sample Id: 666538-001 — MS Sample Id: 666538-001 S — MSD Sample Id: 666538-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	975	98	954	95	70-130	2	20	mg/kg	07.09.2020 02:10	
Diesel Range Organics (DRO)	<49.8	996	997	100	987	99	70-130	1	20	mg/kg	07.09.2020 02:10	

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

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131097 — Matrix: Solid — Date Prep: 07.08.2020
MB Sample Id: 7706926-1-BLK — LCS Sample Id: 7706926-1-BKS — LCSD Sample Id: 7706926-1-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	0.119	119	0.114	114	70-130	4	35	mg/kg	07.08.2020 14:28	
Toluene	<0.00200	0.100	0.101	101	0.0992	99	70-130	2	35	mg/kg	07.08.2020 14:28	
Ethylbenzene	<0.00200	0.100	0.0956	96	0.0935	94	70-130	2	35	mg/kg	07.08.2020 14:28	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.177	89	70-130	2	35	mg/kg	07.08.2020 14:28	
o-Xylene	<0.00200	0.100	0.0888	89	0.0886	89	70-130	0	35	mg/kg	07.08.2020 14:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		101		99		70-130	%	07.08.2020 14:28
4-Bromofluorobenzene	87		83		85		70-130	%	07.08.2020 14:28

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

QC Summary 666538

Etech Environmental & Safety Solution, Inc

Berry SWD

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

Seq Number: 3131097 Matrix: Soil Date Prep: 07.08.2020

Parent Sample Id: 666538-001 MS Sample Id: 666538-001 S MSD Sample Id: 666538-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00666	0.0996	0.127	121	0.132	125	70-130	4	35	mg/kg	07.08.2020 15:09	
Toluene	0.0233	0.0996	0.111	88	0.119	96	70-130	7	35	mg/kg	07.08.2020 15:09	
Ethylbenzene	<0.00199	0.0996	0.0859	86	0.0880	88	70-130	2	35	mg/kg	07.08.2020 15:09	
m,p-Xylenes	<0.00398	0.199	0.164	82	0.165	82	70-130	1	35	mg/kg	07.08.2020 15:09	
o-Xylene	<0.00199	0.0996	0.0813	82	0.0822	82	70-130	1	35	mg/kg	07.08.2020 15:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		70-130	%	07.08.2020 15:09
4-Bromofluorobenzene	84		82		70-130	%	07.08.2020 15:09

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

Ref:
Dep:

Date: 07Jul20
Wgt: 36.00 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT HLD
TRCK: 4705 2523 9423

in of Custody

Work Order No: 460535

XENCO LABORATORIES

...on, 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

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
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 ☐ TRR ☐ Level III ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Berry SWD	Turn Around	
Project Number:	12700	Routine:	☒
Project Location	Eddy County (Lovin, NM)	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	2.0 1.9	Thermometer ID	TJE
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.0
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

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 Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
NH @ Surface	Soil	7.6.20			1	X	X	X	X	
NH @ 1'	Soil	7.6.20		1'	1	X	X	X		
EH @ Surface	Soil	7.6.20			1	X	X	X		
EH @ 1'	Soil	7.6.20		1'	1	X	X	X		
SH @ Surface	Soil	7.6.20			1	X	X	X		
SH @ 1'	Soil	7.6.20		1'	1	X	X	X		
WH @ Surface	Soil	7.6.20			1	X	X	X		
WH @ 1'	Soil	7.6.20		1'	1	X	X	X		
FL 1 @ Surface	Soil	7.6.20			1	X	X	X		
FL 1 @ 4'-R	Soil	7.6.20		4'-R	1	X	X	X		

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	A. R	7.6 5:11	2		7/8/20 1115
3			4		
5			6		

Chain of Custody

Work Order No: 1206538

XENCO LABORATORIES

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

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Project Manager:	Joel Lowry	Bill to: (If different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
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/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Berry SWD	Turn Around	
Project Number:	12760	Routine:	☒
Project Location	Eddy, County (Lovington, NM)	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	23 / 1.9	Thermometer ID	IR28
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

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 Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL 2 @ Surface	Soil	7.6.20			1	X	X	X		
FL 2 @ 1'	Soil	7.6.20		1'	1	X	X	X		
FL 3 @ surface	Soil	7.6.20			1	X	X	X		
FL 3 @ 4'-R	Soil	7.6.20		4'-R	1	X	X	X		

ANALYSIS REQUEST

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.6 5:11	2		7/8/20 1115
3			4		

ORIGIN ID:HOBA (575) 392-7550
SERVICES ETC, LLC
MAIL **
4008 N GRIMES
HOBBS NM 88240
UNITED STATES US
TO XENCO LABORATORIES HOLD FOR PICK UP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 563-1800
INV:
PO:
REF:
DEPT:
FedEx Express
J181111806050luv
WED - 08 JUL HOLD
STANDARD OVERNIGHT
HLD
MAFA
LBB
TX-US
4705 2523 9423
TRK#
0201
41 MAFA
551C2/17B7/104C
BILL RECIPIENT
07 JUL 20
MAN
SHIP UNIT:
ACTWGT: 36.00 LB
CAD: 09093.28/CAFE5321
DIMS: 19x15x11 IN

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.08.2020 11.15.00 AM

Work Order #: 666538

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)?	1.9	
#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: 07.08.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07.09.2020
Jessica Kramer

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Certificate of Analysis Summary 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Berry SWD

Project Id: 12700
Contact: PM
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.24.2020 13:12
Report Date: 09.28.2020 13:42
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	673500-001		673500-002			
	Field Id:	STT @5'		NTT @5'			
	Depth:	5- ft		5- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	09.24.2020 00:00		09.24.2020 00:00			
BTEX by EPA 8021B	***Extracted:***	09.25.2020 15:39		09.25.2020 15:39			
	Analyzed:	09.26.2020 10:38		09.26.2020 11:01			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00196	0.00196		
Toluene		<0.00200	0.00200	<0.00196	0.00196		
Ethylbenzene		<0.00200	0.00200	<0.00196	0.00196		
m,p-Xylenes		<0.00399	0.00399	<0.00392	0.00392		
o-Xylene		<0.00200	0.00200	<0.00196	0.00196		
Total Xylenes		<0.00200	0.00200	<0.00196	0.00196		
Total BTEX		<0.00200	0.00200	<0.00196	0.00196		
Inorganic Anions by EPA 300	***Extracted:***	09.25.2020 11:13		09.25.2020 11:13			
	Analyzed:	09.25.2020 14:40		09.25.2020 14:45			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		158	10.0	362	9.98		
TPH by SW8015 Mod	***Extracted:***	09.25.2020 12:00		09.25.2020 12:00			
	Analyzed:	09.25.2020 15:42		09.25.2020 16:02			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9		
Total TPH		<49.8	49.8	<49.9	49.9		

BRL - Below Reporting Limit

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

Jessica Kramer

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Analytical Report 673500

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Berry SWD

12700

09.28.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

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

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09.28.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **673500**
Berry SWD
Project Address: Eddy County, New Mexico

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) 673500. 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. 673500 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 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
STT @5'	S	09.24.2020 00:00	5 ft	673500-001
NTT @5'	S	09.24.2020 00:00	5 ft	673500-002

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Berry SWD

Project ID: *12700*
Work Order Number(s): *673500*

Report Date: *09.28.2020*
Date Received: *09.24.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**STT @5'**	Matrix:	Soil	Date Received:	09.24.2020 13:12
Lab Sample Id:	673500-001	Date Collected:	09.24.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.25.2020 11:13	Basis:	Wet Weight
Seq Number:	3138166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**158**	10.0	mg/kg	09.25.2020 14:40		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.25.2020 12:00	Basis:	Wet Weight
Seq Number:	3138163				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 15:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 15:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 15:42	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 15:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	09.25.2020 15:42	
o-Terphenyl	84-15-1	113	%	70-135	09.25.2020 15:42	

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Certificate of Analytical Results 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**STT @5'**	Matrix:	Soil	Date Received:	09.24.2020 13:12
Lab Sample Id:	673500-001	Date Collected:	09.24.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.25.2020 15:39	Basis:	Wet Weight
Seq Number:	3138238				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 10:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 10:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	09.26.2020 10:38	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.26.2020 10:38	

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Certificate of Analytical Results 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**NTT @5'**	Matrix:	Soil	Date Received:	09.24.2020 13:12
Lab Sample Id:	673500-002	Date Collected:	09.24.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.25.2020 11:13	Basis:	Wet Weight
Seq Number:	3138166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**362**	9.98	mg/kg	09.25.2020 14:45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.25.2020 12:00	Basis:	Wet Weight
Seq Number:	3138163				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 16:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 16:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 16:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 16:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	09.25.2020 16:02	
o-Terphenyl	84-15-1	115	%	70-135	09.25.2020 16:02	

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Certificate of Analytical Results 673500

Etech Environmental & Safety Solution, Inc, Midland, TX

Berry SWD

Sample Id:	**NTT @5'**	Matrix:	Soil	Date Received:	09.24.2020 13:12
Lab Sample Id:	673500-002	Date Collected:	09.24.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.25.2020 15:39	Basis:	Wet Weight
Seq Number:	3138238				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1
Toluene	108-88-3	<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1
Ethylbenzene	100-41-4	<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1
m,p-Xylenes	179601-23-1	<0.00392	0.00392	mg/kg	09.26.2020 11:01	U	1
o-Xylene	95-47-6	<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1
Total Xylenes	1330-20-7	<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1
Total BTEX		<0.00196	0.00196	mg/kg	09.26.2020 11:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.26.2020 11:01	
4-Bromofluorobenzene	460-00-4	121	%	70-130	09.26.2020 11:01	

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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

QC Summary 673500

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Berry SWD

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138166 — Matrix: Solid — Date Prep: 09.25.2020
MB Sample Id: 7712105-1-BLK — LCS Sample Id: 7712105-1-BKS — LCSD Sample Id: 7712105-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	255	102	90-110	0	20	mg/kg	09.25.2020 10:39	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138166 — Matrix: Soil — Date Prep: 09.25.2020
Parent Sample Id: 673561-011 — MS Sample Id: 673561-011 S — MSD Sample Id: 673561-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	223	200	418	98	422	100	90-110	1	20	mg/kg	09.25.2020 13:55	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138166 — Matrix: Soil — Date Prep: 09.25.2020
Parent Sample Id: 673561-001 — MS Sample Id: 673561-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	264	200	471	104	90-110	mg/kg	09.25.2020 12:37	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138163 — Matrix: Solid — Date Prep: 09.25.2020
MB Sample Id: 7712083-1-BLK — LCS Sample Id: 7712083-1-BKS — LCSD Sample Id: 7712083-1-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	1250	125	974	97	70-135	25	35	mg/kg	09.25.2020 10:19	
Diesel Range Organics (DRO)	<50.0	1000	913	91	956	96	70-135	5	35	mg/kg	09.25.2020 10:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		134		133		70-135	%	09.25.2020 10:19
o-Terphenyl	92		126		123		70-135	%	09.25.2020 10:19

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138163 — Matrix: Solid — Date Prep: 09.25.2020
MB Sample Id: 7712083-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.25.2020 09:59	

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

QC Summary 673500

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Etech Environmental & Safety Solution, Inc

Berry SWD

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138163 — Matrix: Soil — Date Prep: 09.25.2020
Parent Sample Id: 673493-001 — MS Sample Id: 673493-001 S — MSD Sample Id: 673493-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	998	100	981	98	70-135	2	35	mg/kg	09.25.2020 11:19	
Diesel Range Organics (DRO)	<49.8	996	992	100	955	96	70-135	4	35	mg/kg	09.25.2020 11:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	134		130		70-135	%	09.25.2020 11:19
o-Terphenyl	130		125		70-135	%	09.25.2020 11:19

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3138238 — Matrix: Solid — Date Prep: 09.25.2020
MB Sample Id: 7712176-1-BLK — LCS Sample Id: 7712176-1-BKS — LCSD Sample Id: 7712176-1-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	0.0987	99	0.103	103	70-130	4	35	mg/kg	09.26.2020 02:44	
Toluene	<0.00200	0.100	0.0947	95	0.0973	97	70-130	3	35	mg/kg	09.26.2020 02:44	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.101	101	71-129	3	35	mg/kg	09.26.2020 02:44	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.201	101	70-135	2	35	mg/kg	09.26.2020 02:44	
o-Xylene	<0.00200	0.100	0.0986	99	0.0988	99	71-133	0	35	mg/kg	09.26.2020 02:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		102		70-130	%	09.26.2020 02:44
4-Bromofluorobenzene	115		109		109		70-130	%	09.26.2020 02:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3138238 — Matrix: Soil — Date Prep: 09.25.2020
Parent Sample Id: 673428-008 — MS Sample Id: 673428-008 S — MSD Sample Id: 673428-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.105	105	0.0983	98	70-130	7	35	mg/kg	09.26.2020 03:29	
Toluene	<0.00201	0.100	0.0978	98	0.0878	88	70-130	11	35	mg/kg	09.26.2020 03:29	
Ethylbenzene	<0.00201	0.100	0.105	105	0.0900	90	71-129	15	35	mg/kg	09.26.2020 03:29	
m,p-Xylenes	<0.00402	0.201	0.210	104	0.180	90	70-135	15	35	mg/kg	09.26.2020 03:29	
o-Xylene	<0.00201	0.100	0.104	104	0.0904	90	71-133	14	35	mg/kg	09.26.2020 03:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		96		70-130	%	09.26.2020 03:29
4-Bromofluorobenzene	114		111		70-130	%	09.26.2020 03:29

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: 673500

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris Water 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/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Berry SWD	Turn Around	
Project Number:	12700	Routine:	☑
Project Location	Eddy County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	2.8/2.6	Thermometer ID	TNM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
STT@5'	Soil	9.24.20		5'	1	X	X	X	
NTT@5'	Soil	9.24.20		5'	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	Cloe Crafton	9.24.20 1312	2		
3			4		
5			6		

Revised Date 101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.24.2020 01.12.00 PM

Work Order #: 673500

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#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**	Samples received in bulk containers.
#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)?	**No**	
#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: Cloe Clifton Date: 09.24.2020

Checklist reviewed by: Jessica Kramer Date: 09.25.2020

Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Photo Number: 1 **Photo Direction:** West **Photo Description:** View of the affected area and header in western portion of the release Site.	

Photo Number: 2 **Photo Direction:** East **Photo Description:** View of the affected area, header and electrical panel in eastern portion of the release Site.	

Photographic Log

Photo Number: 3	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Northeast	
Photo Description: View of the affected area, header and electrical panel in eastern portion of the release Site.	

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 11821

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
SOLARIS WATER MIDSTREAM, LLC	907 Tradewinds Blvd, Suite B	Midland, TX79706	371643	11821	C-141

OCD Reviewer	Condition
chensley	None