

Poly line feeding Remuda Basin SWD

Incident Number OCD Incident nAPP2213647597

WHEN- 5/13/22

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (Ft ²)	Depth (in)
<u>5998</u>	<u>0.500</u>
Cubic Feet of Soil Impacted	<u>249.917</u>
Barrels of Soil Impacted	<u>44.55</u>
Soil Type	Clay
Barrels of Oil Assuming 100% Saturation	<u>4.45</u>
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	<u>4.4548</u>
Free Standing Fluid Only	
Area (Ft ²)	Depth (inches)
<u>32</u>	<u>1.000</u>
Standing fluid	<u>0.475</u>
Total fluids spilled	<u>4.930</u>

Total fluids spilled 4.930

Devon Energy Production Company, LP
6488 Seven Rivers Hwy
Artesia, NM 88210
575-748-0167

June 21, 2024

NMOCD District 1
1625 N French Dr.
Hobbs, NM, 88240

Bureau of Land Management
620 East Green St.
Carlsbad, NM 88220

RE: Remediation/Proposed Sampling Plan Report
Flowline Supplying Remuda Basin SWD
API No. N/A
GPS: Latitude 32.2982665 Longitude -103.9132046
ULSTR – P – 18 – 23S – 30E 200FSL 327FEL Eddy County, NM
NMOCD Incident ID. nAPP2213647597

This release was initially discovered on May 13, 2022. An initial Notice of Release (NOR) was submitted by Devon personnel on May 16, 2022, and approved by the NMOCD (OCD Online: Permitting – Application ID [107110]). An initial C-141 form was submitted on August 18, 2023, and approved by the NMOCD (OCD Online: Permitting – Application ID [216153]). This incident was assigned Incident ID nAPP2213647597, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

Site information and characterization documents can be found in the previously denied Remediation Closure Report located in OCD Online: Permitting – Action Status, under the Application ID: 231662.

Release Information

nAPP2213647597: On May 13, 2022, the 4" ploy inlet line to the Remuda Basin SWD was struck by an unknown object cutting a gash into the line. Fluids were not in a lined/unlined containment. Fluids were not on pad. Fluids were offsite. Valves on both side of the breach were turned off thus isolating the line and stopping the leak.

Countermeasures due to Remediation Closure Report Denied

On June 5, 2024, the NMOCD denied the remediation closure report citing:

"The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213647597, for the following reasons:

- **Remediation closure denied. The total surface area remediated was 10,500 square feet therefore not enough confirmation samples were collected. In your excavation photos provide captions so its easy to understand what area of the excavation is being shown. This is only a partial report. The entire release area needs to be included in one report together. Resubmit report by 7/5/2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 350323. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141."

Because this release area was solely in the pasture and pipeline Right of Way, and the area is in a High Karst zone, the closure criteria will be classified under the <50' depth to groundwater section of Table 1 19.15.29.12 NMAC.

The sample points on the previously submitted report referenced a data table showing Sample ID CSW-4, CSW-9, and CSW-10 being advanced to 4' below grade surface (bgs). This information was incorrectly reported. The walls of the excavation at each of these three

sample points were advanced laterally by 1', and the new confirmation samples were collected. The Confirmation Sample Map that can be found in Figure 1, illustrates this change to the excavated area.

On behalf of Devon, Pima proposes to collect additional samples from the release area. The Confirmation Sample Map in Figure 1 also represents the total of all samples that have already been collected. As you can see, the number of base samples collected was insufficient, and the number of wall samples collected was excessive. We offer this proposed sampling plan:

1. Submit a 48-Hour Notification of Sampling Event via NMOCD Portal.
2. A total of 24 additional samples will be collected from the northern portion of the release area. Because the excavation has been backfilled, these samples will be discreet samples, each taken from a depth of 3' (bgs).
3. Samples collected will be immediately put on ice, then jarred, and delivered to Envirotech Labs where each sample will be analyzed for all constituents as per Table 1 19.15.29.12 NMAC.
4. If sample results prove that contamination still exists, Devon will remove it, haul it to an approved, lined disposal facility, and backfill the area with clean, like material.
5. If samples results prove that contamination does not exist, a remediation closure report will be drafted and submitted to the NMOCD with all pertinent details of these events.

A Proposed Sampling Map can be found in Figure 2. Complete laboratory reports and corresponding data tables can be found in Appendix A. Previously submitted Photographic Documentation with correct labeling can be found in Appendix B.

Approval Request

On behalf of Devon, Pima requests that this Remediation/Proposed Sampling Plan Report for incident ID# nAPP2213647597 be approved. Devon has complied with the applicable requirements outlined in rule 19.15.29.12 NMAC.

Should you have any questions or need additional information, please feel free to contact:

Devon Energy Production – Dale Woodall at 575-748-0167 or dale.woodall@devon.com.

Pima Environmental – Tom Bynum at 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Confirmation Sample Map
- 2- Proposed Sampling Map

Appendices:

- Appendix A – Laboratory Reports & Corresponding Data Tables
- Appendix B – Photographic Documentation with Correct Labeling



Figures:

1 - Confirmation Sample Map

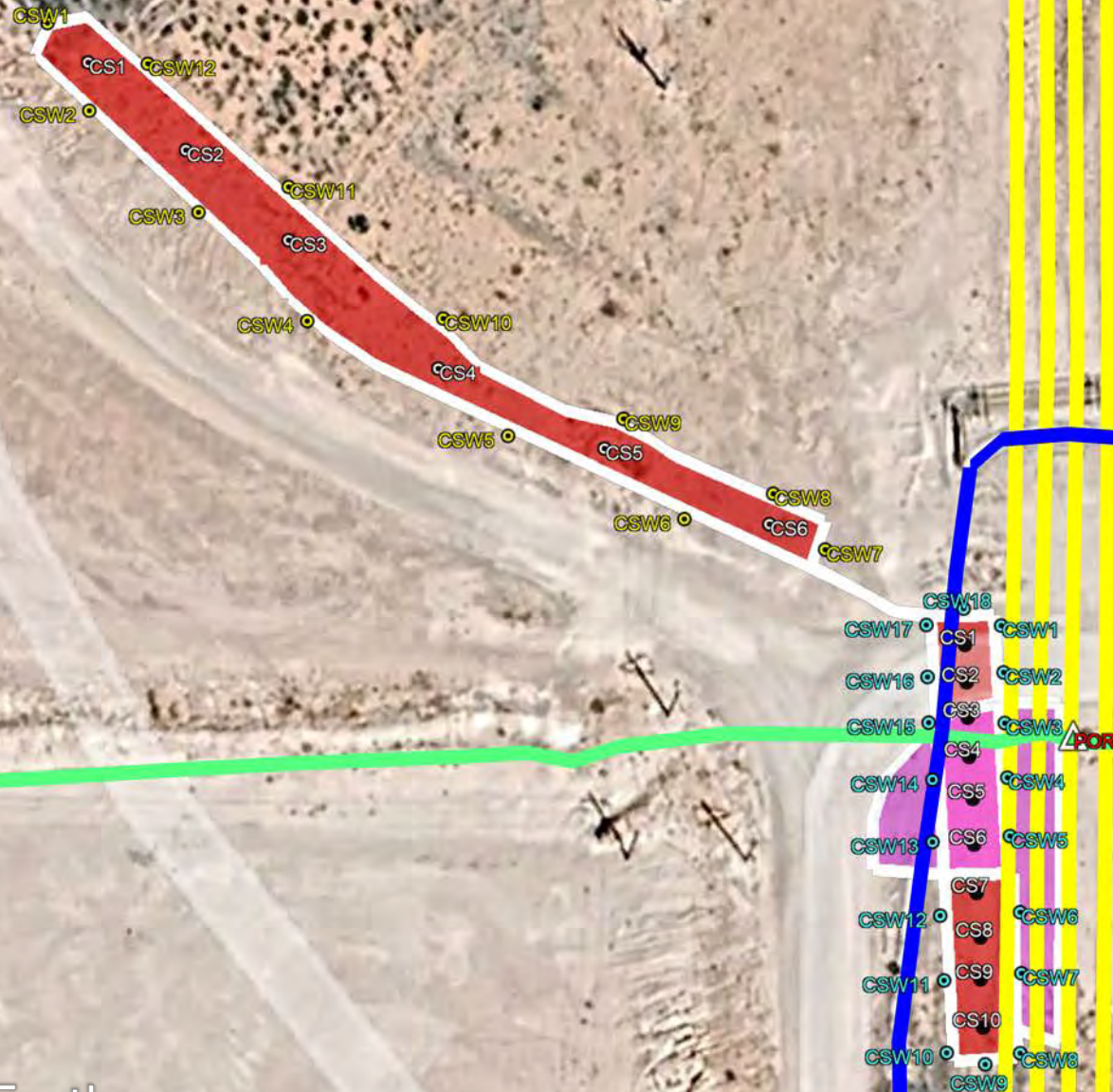
2 - Proposed Sampling Map

Flowline Supplying Remuda Basin SWD

Devon Energy
API/Facility ID N/A
Eddy County, NM
nAPP2213647597
Confirmation Sample Map

Legend

- Confirmation base samples-North
- Confirmation base samples-South
- Confirmation wall samples-North
- Confirmation wall samples-South
- Excavated area for pipeline
- Excavation area - 8,375 sqft
- Lay flat hose
- Poly flowlines
- Underground Pipelines



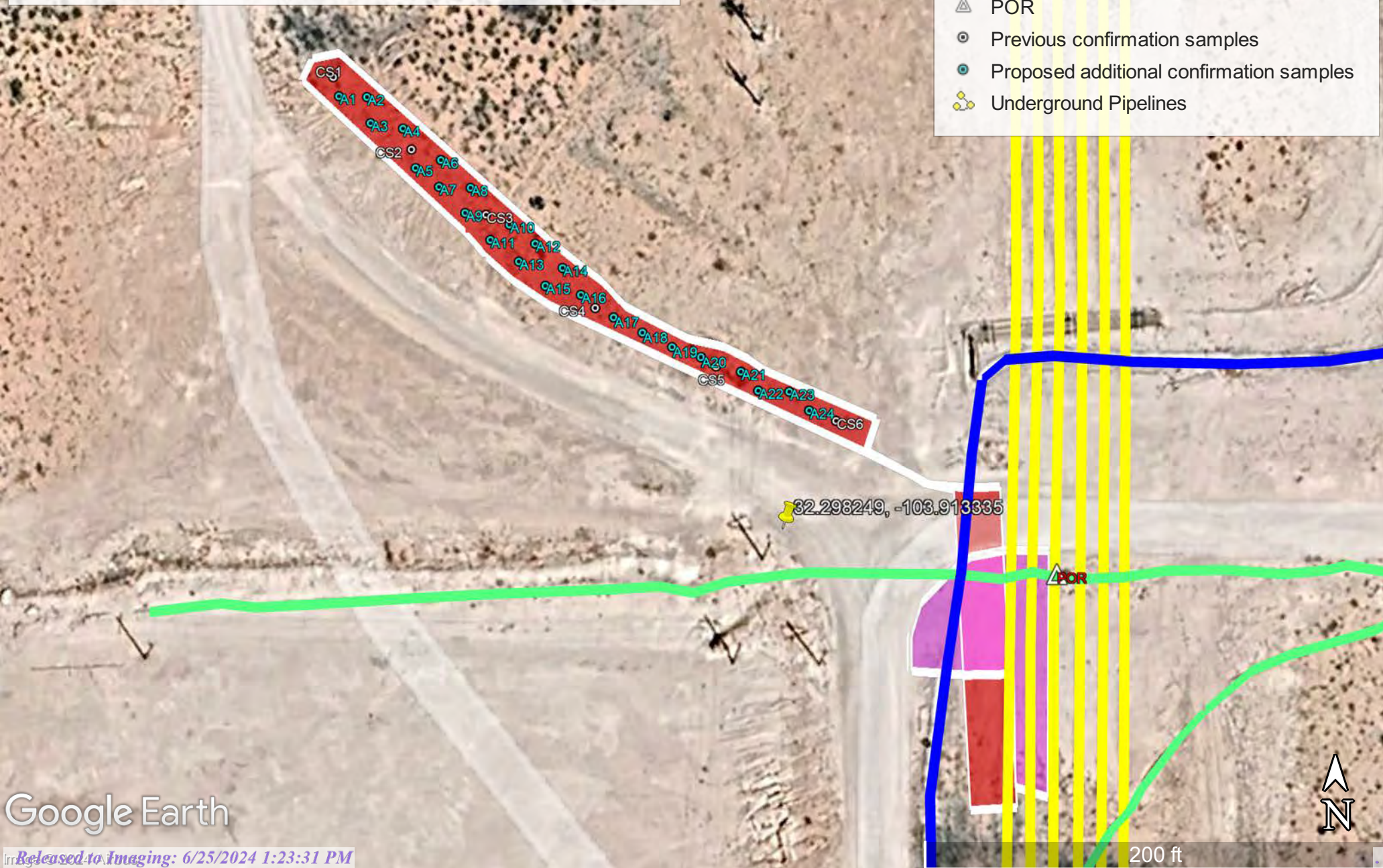
Google Earth

Flowline Supplying Remuda Basin SWD1

Devon Energy
API/Facility ID N/A
Eddy County, NM
nAPP2213647597
Proposed Sampling Map

Legend

- Excavated area for pipeline
- Excavation area - 8,375 sqft
- Lay flat hose
- Poly flowlines
- POR
- Previous confirmation samples
- Proposed additional confirmation samples
- Underground Pipelines





Appendix A

Laboratoy Reports & Corresponding Data Tables

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Flowline Supply Remuda Basin
SWD

Work Order: E401076

Job Number: 01058-0007

Received: 1/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/17/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Flowline Supply Remuda Basin SWD
Workorder: E401076
Date Received: 1/16/2024 6:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/16/2024 6:30:00AM, under the Project Name: Flowline Supply Remuda Basin SWD.

The analytical test results summarized in this report with the Project Name: Flowline Supply Remuda Basin SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS1- Bottom	6
CS2- Bottom	7
CS3- Bottom	8
CS4- Bottom	9
CS5- Bottom	10
CS6- Bottom	11
CS7- Bottom	12
CS8- Bottom	13
CS9- Bottom	14
CS10- Bottom	15
CSW1	16
CSW2	17
CSW3	18
CSW4	19
CSW5	20
CSW6	21
CSW7	22
CSW8	23
CSW9	24
CSW10	25

Table of Contents (continued)

CSW11	26
CSW12	27
CSW13	28
CSW14	29
CSW15	30
CSW16	31
CSW17	32
CSW18	33
QC Summary Data	34
QC - Volatile Organic Compounds by EPA 8260B	34
QC - Volatile Organics by EPA 8021B	35
QC - Nonhalogenated Organics by EPA 8015D - GRO	36
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	38
QC - Anions by EPA 300.0/9056A	40
Definitions and Notes	42
Chain of Custody etc.	43

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/17/24 13:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1- Bottom	E401076-01A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS2- Bottom	E401076-02A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS3- Bottom	E401076-03A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS4- Bottom	E401076-04A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS5- Bottom	E401076-05A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS6- Bottom	E401076-06A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS7- Bottom	E401076-07A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS8- Bottom	E401076-08A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS9- Bottom	E401076-09A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CS10- Bottom	E401076-10A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW1	E401076-11A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW2	E401076-12A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW3	E401076-13A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW4	E401076-14A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW5	E401076-15A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW6	E401076-16A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW7	E401076-17A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW8	E401076-18A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW9	E401076-19A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW10	E401076-20A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW11	E401076-21A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW12	E401076-22A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW13	E401076-23A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW14	E401076-24A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW15	E401076-25A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW16	E401076-26A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW17	E401076-27A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.
CSW18	E401076-28A	Soil	01/12/24	01/16/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CS1- Bottom

E401076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		106 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		106 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		100 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CS2- Bottom

E401076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		102 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CS3- Bottom

E401076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		103 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS4- Bottom
E401076-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		112 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		110 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		112 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		110 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		102 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CS5- Bottom
E401076-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		102 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS6- Bottom
E401076-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		92.6 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CS7- Bottom
E401076-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		108 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		108 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		96.8 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CS8- Bottom
E401076-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		108 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		108 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		96.9 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS9- Bottom
E401076-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		110 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		110 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		98.7 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CS10- Bottom

E401076-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/16/24	01/16/24	
Surrogate: Toluene-d8		109 %	70-130	01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane		103 %	50-200	01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW1

E401076-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	108 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW2

E401076-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2403021	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	91.1 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2403021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	91.1 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2403018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	108 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2403027	
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CSW3

E401076-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	91.3 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	91.3 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	107 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW4

E401076-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	110 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW5

E401076-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	107 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW6

E401076-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	107 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW7

E401076-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	89.6 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	89.6 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	108 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW8

E401076-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.4 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.4 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	110 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW9

E401076-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	89.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	89.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	111 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 1/17/2024 1:55:28PM
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CSW10

E401076-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.2 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2403021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		01/16/24	01/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/16/24	01/16/24	
Surrogate: Toluene-d8	90.2 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	91.7 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403027
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW11

E401076-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2403019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2403028	
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW12

E401076-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403019
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403028
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW13

E401076-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403019
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	98.0 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403028
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW14

E401076-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2403019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2403028	
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW15

E401076-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2403022
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403019
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2403028
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW16

E401076-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2403019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2403028	
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 1/17/2024 1:55:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW17

E401076-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2403019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
Surrogate: n-Nonane	95.1 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2403028	
Chloride	ND	20.0	1	01/16/24	01/16/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/17/2024 1:55:28PM

CSW18

E401076-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Benzene	ND	0.0250	1	01/16/24	01/16/24	
Ethylbenzene	ND	0.0250	1	01/16/24	01/16/24	
Toluene	ND	0.0250	1	01/16/24	01/16/24	
o-Xylene	ND	0.0250	1	01/16/24	01/16/24	
p,m-Xylene	ND	0.0500	1	01/16/24	01/16/24	
Total Xylenes	ND	0.0250	1	01/16/24	01/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2403022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/16/24	01/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		01/16/24	01/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2403019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/16/24	01/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/16/24	01/16/24	
<i>Surrogate: n-Nonane</i>						
	94.2 %	50-200		01/16/24	01/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2403028	
Chloride	ND	20.0	1	01/16/24	01/16/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2403021-BLK1) Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

LCS (2403021-BS1) Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	2.22	0.0250	2.50		88.8	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130			
Toluene	2.26	0.0250	2.50		90.2	70-130			
o-Xylene	2.38	0.0250	2.50		95.2	70-130			
p,m-Xylene	4.73	0.0500	5.00		94.5	70-130			
Total Xylenes	7.11	0.0250	7.50		94.8	70-130			
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike (2403021-MS1) Source: E401076-06 Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	2.59	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.69	0.0250	2.50	ND	108	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.69	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.04	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike Dup (2403021-MSD1) Source: E401076-06 Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	2.44	0.0250	2.50	ND	97.8	48-131	5.86	23	
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135	4.58	27	
Toluene	2.48	0.0250	2.50	ND	99.4	48-130	4.95	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	5.98	27	
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135	6.54	27	
Total Xylenes	7.55	0.0250	7.50	ND	101	43-135	6.35	27	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2403022-BLK1) Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

LCS (2403022-BS1) Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	4.90	0.0250	5.00		98.0	70-130			
Ethylbenzene	4.91	0.0250	5.00		98.3	70-130			
Toluene	4.94	0.0250	5.00		98.9	70-130			
o-Xylene	4.92	0.0250	5.00		98.4	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2403022-MS1) Source: E401076-28 Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	4.88	0.0250	5.00	ND	97.6	54-133			
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133			
Toluene	4.92	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike Dup (2403022-MSD1) Source: E401076-28 Prepared: 01/16/24 Analyzed: 01/16/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	2.56	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133	2.12	20	
Toluene	4.80	0.0250	5.00	ND	95.9	61-130	2.48	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	2.03	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	2.28	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131	2.19	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2403021-BLK1) Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

LCS (2403021-BS2) Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	60.8	20.0	50.0		122	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

Matrix Spike (2403021-MS2) Source: E401076-06 Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike Dup (2403021-MSD2) Source: E401076-06 Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	5.00	20	
Surrogate: Bromofluorobenzene	0.563		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2403022-BLK1) Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2403022-BS2) Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			

Matrix Spike (2403022-MS2) Source: E401076-28 Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2403022-MSD2) Source: E401076-28 Prepared: 01/16/24 Analyzed: 01/16/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.3	70-130	7.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2403018-BLK1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS (2403018-BS1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Diesel Range Organics (C10-C28)	239	25.0	250		95.7	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike (2403018-MS1)				Source: E401076-05		Prepared: 01/16/24 Analyzed: 01/17/24			
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.7	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2403018-MSD1)				Source: E401076-05		Prepared: 01/16/24 Analyzed: 01/16/24			
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132	4.39	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2403019-BLK1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

LCS (2403019-BS1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Diesel Range Organics (C10-C28)	228	25.0	250		91.1	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

Matrix Spike (2403019-MS1)					Source: E401076-26		Prepared: 01/16/24 Analyzed: 01/16/24		
Diesel Range Organics (C10-C28)	217	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			

Matrix Spike Dup (2403019-MSD1)					Source: E401076-26		Prepared: 01/16/24 Analyzed: 01/16/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.2	38-132	3.64	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2403027-BLK1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Chloride	ND	20.0							
LCS (2403027-BS1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2403027-MS1)					Source: E401076-01		Prepared: 01/16/24 Analyzed: 01/16/24		
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2403027-MSD1)					Source: E401076-01		Prepared: 01/16/24 Analyzed: 01/16/24		
Chloride	252	20.0	250	ND	101	80-120	0.875	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/17/2024 1:55:28PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2403028-BLK1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Chloride	ND	20.0							
LCS (2403028-BS1)					Prepared: 01/16/24 Analyzed: 01/16/24				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2403028-MS1)					Source: E401076-22		Prepared: 01/16/24 Analyzed: 01/16/24		
Chloride	249	20.0	250	ND	99.5	80-120			
Matrix Spike Dup (2403028-MSD1)					Source: E401076-22		Prepared: 01/16/24 Analyzed: 01/16/24		
Chloride	249	20.0	250	ND	99.7	80-120	0.127	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/17/24 13:55

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services SWP					Bill To					Lab Use Only					TAT				EPA Program																						
Project: Flow line Supplying Temuda Basin					Attention: Dexon					Lab WO# E401076					Job Number 010580007				1D	2D	3D	Standard	CWA	SDWA																	
Project Manager: Tom Bynum					Address:					Analysis and Method									RCRA																						
Address: 5614 N. Lovington Hwy.					City, State, Zip																																				
City, State, Zip Hobbs, NM, 88240					Phone:					DRO/RO by 8015				GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX			
Phone: 580-748-1613					Email:																																				
Email: tom@pimaoil.com					Pima Project # 2-119					State				NM				CO				UT				AZ				TX											
Report due by:																																									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																			
3:17	1/12	S	1	CS1 - Bottom	1	X																																			
3:22				CS2 - Bottom	2																																				
3:38				CS3 - Bottom	3																																				
3:46				CS4 - Bottom	4																																				
3:59				CS5 - Bottom	5																																				
4:08				CS6 - Bottom	6																																				
4:17				CS7 - Bottom	7																																				
4:28				CS8 - Bottom	8																																				
4:34				CS9 - Bottom	9																																				
4:47				CS10 - Bottom	10																																				
Additional Instructions: Billing # 210 30907																																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection, is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																													
Relinquished by: (Signature) Karine A. Dume												Received by: (Signature) [Signature]																													
Date 1-15-24 Time 1300												Date 1-15-24 Time 1300																													
Relinquished by: (Signature) [Signature]												Received by: (Signature) [Signature]																													
Date 1-15-24 Time 1530												Date 1-15-24 Time 1730																													
Relinquished by: (Signature) [Signature]												Received by: (Signature) [Signature]																													
Date 1-15-24 Time 2400												Date 1-16-24 Time 0630																													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																									

Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services ^{SWD}					Bill To		Lab Use Only				TAT				EPA Program																											
Project: <u>Flowline Supplying Temuda Basin</u>					Attention: <u>Devon</u>		Lab WO# <u>E401676</u>				Job Number <u>010580007x</u>				1D	2D	3D	Standard	CWA	SDWA																						
Project Manager: Tom Bynum					Address:		Analysis and Method												RCRA																							
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip																																					
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:		DRO by 8015				GRO by 8015				BTX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX				State			
Phone: <u>580-748-1613</u>					Email:																																					
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>R-119</u>																																					
Report due by:																																										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks															
4:51	1/12	S	1	CSW1	11	<div style="position: relative; height: 100px;"> X </div>															
5:06				CSW2	12																
5:15				CSW3	13																
5:22				CSW4	14																
5:36				CSW5	15																
5:42				CSW6	16																
5:58				CSW7	17																
6:06				CSW8	18																
6:06				CSW9	19																
6:22				CSW10	20																

Additional Instructions: Billing # 210 30 907

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) Karime Adams Date 1-15-24 Time 1730 Received by: (Signature) [Signature] Date 1-15-24 Time 1730

Relinquished by: (Signature) [Signature] Date 1-15-24 Time 1530 Received by: (Signature) [Signature] Date 1-15-24 Time 1530

Relinquished by: (Signature) [Signature] Date 1-16-24 Time 0630 Received by: (Signature) [Signature] Date 1-16-24 Time 0630

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Andrew m/sbo 1-15-24 1730

Andrew m/sbo 1-15-24 2400


envirotech

Project Information

Chain of Custody

Page 3 of 3

Client: Pima Environmental Services SWD					Bill To		Lab Use Only		TAT				EPA Program			
Project: Flowline Supplying Remuda Basin					Attention: Devon		Lab WO# E 401076		Job Number 010580007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip Hobbs, NM, 88240					Phone:		Chloride 300.0						BGDOC NM		BGDOC TX	
Phone: 580-748-1613					Email:										State	
Email: tom@pimaoil.com					Pima Project # R-119										NM CO UT AZ TX	
Report due by:															Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											
6:36	1/12	S	1	CSW 11	21									X		
6:39				CSW 12	22											
6:47				CSW 13	23											
6:56				CSW 14	24											
7:00				CSW 15	25											
7:09				CSW 16	26											
7:18				CSW 17	27											
7:25				CSW 18	28											
Additional Instructions: Billing # 21030907																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only				
Karime Adams		1-15-24		1300		Devon		1-15-24		1300		Received on ice: Y / N				
Andrew M. Hoo		1-15-24		1530		Andrew M. Hoo		1-15-24		1730		T1 _____ T2 _____ T3 _____				
Andrew M. Hoo		1-15-24		2400		Keyping R. Hoo		1-16-24		0630		AVG Temp °C 4				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Envirotech Analytical Laboratory

Printed: 1/16/2024 10:05:49AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	01/16/24 06:30	Work Order ID:	E401076
Phone:	(575) 631-6977	Date Logged In:	01/15/24 15:51	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	01/16/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst)								
Devon - Flowline Supply Remda Basin SWD - nAPP2213647597								
Date: 1/12/24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CS1-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS2-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS3-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS4-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS5-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS6-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS7-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS8-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS9-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CS10-Bottom	3'	ND	ND	ND	ND	ND	0	ND
CSW1	3'	ND	ND	ND	ND	ND	0	ND
CSW2	3'	ND	ND	ND	ND	ND	0	ND
CSW3	3'	ND	ND	ND	ND	ND	0	ND
CSW4	3'	ND	ND	ND	ND	ND	0	ND
CSW5	3'	ND	ND	ND	ND	ND	0	ND
CSW6	3'	ND	ND	ND	ND	ND	0	ND
CSW7	3'	ND	ND	ND	ND	ND	0	ND
CSW8	3'	ND	ND	ND	ND	ND	0	ND
CSW9	3'	ND	ND	ND	ND	ND	0	ND
CSW10	3'	ND	ND	ND	ND	ND	0	ND
CSW11	3'	ND	ND	ND	ND	ND	0	ND
CSW12	3'	ND	ND	ND	ND	ND	0	ND
CSW13	3'	ND	ND	ND	ND	ND	0	ND
CSW14	3'	ND	ND	ND	ND	ND	0	ND
CSW15	3'	ND	ND	ND	ND	ND	0	ND
CSW16	3'	ND	ND	ND	ND	ND	0	ND
CSW17	3'	ND	ND	ND	ND	ND	0	ND
CSW18	3'	ND	ND	ND	ND	ND	0	ND

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Flowline Supply Remuda Basin
SWD

Work Order: E305057

Job Number: 01058-0007

Received: 5/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/11/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/11/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Flowline Supply Remuda Basin SWD
Workorder: E305057
Date Received: 5/10/2023 7:20:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2023 7:20:00AM, under the Project Name: Flowline Supply Remuda Basin SWD.

The analytical test results summarized in this report with the Project Name: Flowline Supply Remuda Basin SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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ljjarboe@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-1	6
CS-2	7
CS-3	8
CS-4	9
CS-5	10
CS-6	11
CSW-1	12
CSW-2	13
CSW-3	14
CSW-4	15
CSW-5	16
CSW-6	17
CSW-7	18
CSW-8	19
CSW-9	20
CSW-10	21
CSW-11	22
CSW-12	23
QC Summary Data	24
QC - Volatile Organic Compounds by EPA 8260B	24

Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - GRO	25
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	26
QC - Anions by EPA 300.0/9056A	27
Definitions and Notes	28
Chain of Custody etc.	29

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/11/23 13:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E305057-01A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CS-2	E305057-02A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CS-3	E305057-03A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CS-4	E305057-04A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CS-5	E305057-05A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CS-6	E305057-06A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-1	E305057-07A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-2	E305057-08A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-3	E305057-09A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-4	E305057-10A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-5	E305057-11A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-6	E305057-12A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-7	E305057-13A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-8	E305057-14A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-9	E305057-15A	Soil	05/04/23	05/10/23	Glass Jar, 4 oz.
CSW-10	E305057-16A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-11	E305057-17A	Soil	05/04/23	05/10/23	Glass Jar, 2 oz.
CSW-12	E305057-18A	Soil	05/04/23	05/10/23	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CS-1

E305057-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.8 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.8 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	69.9	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		104 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CS-2

E305057-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		96.4 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		96.4 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	78.1	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		109 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CS-3

E305057-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		98.2 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		98.2 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	89.9	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		106 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CS-4

E305057-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	82.8	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		104 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CS-5

E305057-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		104 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		104 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	69.6	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		98.5 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/11/2023 1:19:26PM
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CS-6

E305057-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY			Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene	104 %	70-130		05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		05/10/23	05/10/23	
Surrogate: Toluene-d8	103 %	70-130		05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY			Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene	104 %	70-130		05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		05/10/23	05/10/23	
Surrogate: Toluene-d8	103 %	70-130		05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM			Batch: 2319035
Diesel Range Organics (C10-C28)	77.8	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane	99.1 %	50-200		05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS			Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-1

E305057-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.2 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.2 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		87.6 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/11/2023 1:19:26PM
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CSW-2
E305057-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319039	
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		99.9 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		99.9 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319035	
Diesel Range Organics (C10-C28)	84.7	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		89.3 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2319042	
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-3

E305057-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		99.7 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		99.7 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	67.4	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		86.5 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/11/2023 1:19:26PM
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CSW-4
E305057-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319039	
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.8 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		97.8 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319035	
Diesel Range Organics (C10-C28)	481	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	162	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		88.4 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2319042	
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-5

E305057-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		96.3 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		96.3 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	70.2	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		87.9 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-6

E305057-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		102 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		102 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	68.1	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		89.6 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-7

E305057-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		103 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		103 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	71.6	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		82.3 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-8

E305057-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		104 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		104 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	75.8	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		85.4 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-9

E305057-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	142	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	69.6	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		86.2 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-10

E305057-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		103 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		103 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	116	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	58.2	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		86.9 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-11

E305057-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		103 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	93.5	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		87.6 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 1:19:26PM

CSW-12

E305057-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Benzene	ND	0.0250	1	05/10/23	05/10/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/10/23	
Toluene	ND	0.0250	1	05/10/23	05/10/23	
o-Xylene	ND	0.0250	1	05/10/23	05/10/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/10/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319039
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/10/23	05/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	05/10/23	05/10/23	
Surrogate: Toluene-d8		102 %	70-130	05/10/23	05/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319035
Diesel Range Organics (C10-C28)	80.8	25.0	1	05/10/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/10/23	
Surrogate: n-Nonane		86.4 %	50-200	05/10/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319042
Chloride	ND	20.0	1	05/10/23	05/10/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 1:19:26PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2319039-BLK1) Prepared: 05/10/23 Analyzed: 05/10/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2319039-BS1) Prepared: 05/10/23 Analyzed: 05/10/23

Benzene	2.53	0.0250	2.50		101	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.41	0.0250	2.50		96.6	70-130			
p,m-Xylene	4.78	0.0500	5.00		95.6	70-130			
Total Xylenes	7.19	0.0250	7.50		95.9	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2319039-MS1) Source: E305057-05 Prepared: 05/10/23 Analyzed: 05/10/23

Benzene	2.54	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.37	0.0250	2.50	ND	94.8	45-135			
Toluene	2.41	0.0250	2.50	ND	96.2	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.6	43-135			
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135			
Total Xylenes	7.28	0.0250	7.50	ND	97.1	43-135			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2319039-MSD1) Source: E305057-05 Prepared: 05/10/23 Analyzed: 05/10/23

Benzene	2.52	0.0250	2.50	ND	101	48-131	0.811	23	
Ethylbenzene	2.34	0.0250	2.50	ND	93.7	45-135	1.10	27	
Toluene	2.36	0.0250	2.50	ND	94.5	48-130	1.76	24	
o-Xylene	2.43	0.0250	2.50	ND	97.2	43-135	0.390	27	
p,m-Xylene	4.78	0.0500	5.00	ND	95.7	43-135	1.14	27	
Total Xylenes	7.21	0.0250	7.50	ND	96.2	43-135	0.890	27	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 1:19:26PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319039-BLK1)

Prepared: 05/10/23 Analyzed: 05/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2319039-BS2)

Prepared: 05/10/23 Analyzed: 05/10/23

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike (2319039-MS2)

Source: E305057-05

Prepared: 05/10/23 Analyzed: 05/10/23

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2319039-MSD2)

Source: E305057-05

Prepared: 05/10/23 Analyzed: 05/10/23

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	1.23	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 1:19:26PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319035-BLK1)					Prepared: 05/10/23 Analyzed: 05/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.9	50-200			

LCS (2319035-BS1)					Prepared: 05/10/23 Analyzed: 05/10/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	42.2		50.0		84.5	50-200			

Matrix Spike (2319035-MS1)					Source: E305057-15		Prepared: 05/10/23 Analyzed: 05/10/23		
Diesel Range Organics (C10-C28)	370	25.0	250	142	91.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			

Matrix Spike Dup (2319035-MSD1)					Source: E305057-15		Prepared: 05/10/23 Analyzed: 05/10/23		
Diesel Range Organics (C10-C28)	322	25.0	250	142	72.0	38-132	13.7	20	
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 1:19:26PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2319042-BLK1)					Prepared: 05/10/23 Analyzed: 05/10/23				
Chloride	ND	20.0							
LCS (2319042-BS1)					Prepared: 05/10/23 Analyzed: 05/10/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2319042-MS1)					Source: E305057-01		Prepared: 05/10/23 Analyzed: 05/10/23		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2319042-MSD1)					Source: E305057-01		Prepared: 05/10/23 Analyzed: 05/10/23		
Chloride	257	20.0	250	ND	103	80-120	0.492	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/11/23 13:19

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Flowline Supply Remuda Basin</u>		Attention: <u>Devon</u>		Lab WO# <u>E 305057</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:											
Address: 5614 N. Lovington Hwy.		City, State, Zip											
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:											
Phone: 580-748-1613		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>119</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			State	Remarks
9:05	5/4/23	S		CS-1	1									X					
9:10	5/4/23			CS-2	2														
9:15	5/4/23			CS-3	3														
9:20	5/4/23			CS-4	4														
9:25	5/4/23			CS-5	5														
9:30	5/4/23			CS-6	6														
9:35	5/4/23			CSW-1	7														
9:40	5/4/23			CSW-2	8														
9:45	5/4/23			CSW-3	9														
9:50	5/4/23			CSW-4	10														

Additional Instructions:

Billing # 21030907

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: AD

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Karine Adams</u>	Date <u>5/9/23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Gault</u>	Date <u>5-9-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>40</u>
Relinquished by: (Signature) <u>Michelle Gault</u>	Date <u>5-9-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Musso</u>	Date <u>5-9-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew Musso</u>	Date <u>5-9-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Debra Z...</u>	Date <u>5/10/23</u>	Time <u>7:20</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 7 of 8

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>Flawline Supply Bermuda Basin SWD</u>					Attention: <u>Devon</u>		Lab WO# <u>E 305057</u>		Job Number <u>0058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>119</u>											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	Remarks
9:55	5/4/23	S		CSW-5	11									X		
10:00	5/4/23			CSW-6	12											
10:05	5/4/23			CSW-7	13											
10:10	5/4/23			CSW-8	14											
10:15	5/4/23			CSW-9	15											
10:20	5/4/23			CSW-10	16											
10:25	5/4/23			CSW-11	17											
10:30 ^{am}	5/4/23			CSW-12	18											
Additional Instructions: <u>Billing # 21036907</u>																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																
Sampled by: <u>RB</u>																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
<u>Karime Adams</u>		5/4/23	2:00	<u>Micelle Gays</u>		5-9-23	1400	Received on ice: <u>Y</u> / N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
<u>Micelle Gays</u>		5-9-23	1700	<u>Andrew Mueso</u>		5-9-23	1700									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4.0</u>								
<u>Andrew Mueso</u>		5-9-23	2300	<u>Zene Zeghe</u>		5/10/23	7:20									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Envirotech Analytical Laboratory

Printed: 5/10/2023 9:41:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/10/23 07:20	Work Order ID:	E305057
Phone:	(575) 631-6977	Date Logged In:	05/09/23 15:31	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/10/23 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Flowline Supply Remuda Basin
SWD

Work Order: E305074

Job Number: 01058-0007

Received: 5/12/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/15/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Workorder: E305074
Date Received: 5/12/2023 8:20:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/12/2023 8:20:00AM, under the Project Name: Flowline Supply Remuda Basin SWD.

The analytical test results summarized in this report with the Project Name: Flowline Supply Remuda Basin SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CSW-4	5
CSW-9	6
CSW-10	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported: 05/15/23 12:20
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW-4	E305074-01A	Soil	05/10/23	05/12/23	Glass Jar, 2 oz.
CSW-9	E305074-02A	Soil	05/10/23	05/12/23	Glass Jar, 2 oz.
CSW-10	E305074-03A	Soil	05/10/23	05/12/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/15/2023 12:20:12PM

CSW-4

E305074-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319063	
Benzene	ND	0.0250	1	05/12/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/12/23	05/12/23	
Toluene	ND	0.0250	1	05/12/23	05/12/23	
o-Xylene	ND	0.0250	1	05/12/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/12/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/12/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2319063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319065	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/23	05/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/23	05/12/23	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		05/12/23	05/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2319062	
Chloride	ND	20.0	1	05/11/23	05/12/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/15/2023 12:20:12PM

CSW-9

E305074-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319063
Benzene	ND	0.0250	1	05/12/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/12/23	05/12/23	
Toluene	ND	0.0250	1	05/12/23	05/12/23	
o-Xylene	ND	0.0250	1	05/12/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/12/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/12/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319063
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319065
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/23	05/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/23	05/12/23	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		05/12/23	05/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319062
Chloride	ND	20.0	1	05/11/23	05/12/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Flowline Supply Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/15/2023 12:20:12PM

CSW-10

E305074-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319063
Benzene	ND	0.0250	1	05/12/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/12/23	05/12/23	
Toluene	ND	0.0250	1	05/12/23	05/12/23	
o-Xylene	ND	0.0250	1	05/12/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/12/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/12/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2319063
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		05/12/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319065
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/23	05/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/23	05/12/23	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		05/12/23	05/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319062
Chloride	ND	20.0	1	05/11/23	05/12/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/15/2023 12:20:12PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319063-BLK1)

Prepared: 05/11/23 Analyzed: 05/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

LCS (2319063-BS1)

Prepared: 05/11/23 Analyzed: 05/12/23

Benzene	4.70	0.0250	5.00		94.0	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	9.96	0.0500	10.0		99.6	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike (2319063-MS1)

Source: E305073-01

Prepared: 05/11/23 Analyzed: 05/12/23

Benzene	4.69	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2319063-MSD1)

Source: E305073-01

Prepared: 05/11/23 Analyzed: 05/12/23

Benzene	4.92	0.0250	5.00	ND	98.4	54-133	4.88	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	4.57	20	
Toluene	5.21	0.0250	5.00	ND	104	61-130	4.75	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	4.94	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	4.65	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	4.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Flowline Supply Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/15/2023 12:20:12PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319063-BLK1)

Prepared: 05/11/23 Analyzed: 05/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

LCS (2319063-BS2)

Prepared: 05/11/23 Analyzed: 05/12/23

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2319063-MS2)

Source: E305073-01

Prepared: 05/11/23 Analyzed: 05/12/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			

Matrix Spike Dup (2319063-MSD2)

Source: E305073-01

Prepared: 05/11/23 Analyzed: 05/12/23

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130	8.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 12:20:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319065-BLK1)					Prepared: 05/12/23 Analyzed: 05/12/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			

LCS (2319065-BS1)					Prepared: 05/12/23 Analyzed: 05/12/23				
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	42.4		50.0		84.8	50-200			

Matrix Spike (2319065-MS1)					Source: E305074-03		Prepared: 05/12/23 Analyzed: 05/12/23		
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	41.3		50.0		82.6	50-200			

Matrix Spike Dup (2319065-MSD1)					Source: E305074-03		Prepared: 05/12/23 Analyzed: 05/12/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	0.794	20	
Surrogate: n-Nonane	40.0		50.0		79.9	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/15/2023 12:20:12PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2319062-BLK1)					Prepared: 05/11/23 Analyzed: 05/12/23				
Chloride	ND	20.0							
LCS (2319062-BS1)					Prepared: 05/11/23 Analyzed: 05/12/23				
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2319062-BSD1)					Prepared: 05/11/23 Analyzed: 05/12/23				
Chloride	247	20.0	250		99.0	90-110	0.350	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Flowline Supply Remuda Basin SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/15/23 12:20

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Flowline Supply Kemah Basin Sd</u>		Attention: <u>Devon</u>		Lab WO# <u>E305074</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:						X					
Address: 5614 N. Lovington Hwy.		City, State, Zip											RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:											
Phone: 580-748-1613		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>119</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	5/10/23	S	1	CSW-4	1							1		
8:05	1	1	1	CSW-9	2							1		
8:10	1	1	1	CSW-10	3							1		

Additional Instructions:

Billing # 21030907

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: A.F.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Karime Adams</u>	Date <u>5/11/23</u>	Time <u>200</u>	Received by: (Signature) <u>Micelle Kuyala</u>	Date <u>5-11-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Micelle Kuyala</u>	Date <u>5-11-23</u>	Time <u>1630</u>	Received by: (Signature) <u>Andrew Muzo</u>	Date <u>5-11-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew Muzo</u>	Date <u>5-11-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Carla Muzo</u>	Date <u>5/12/23</u>	Time <u>8:20</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 5/12/2023 9:27:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/12/23 08:20	Work Order ID:	E305074
Phone:	(575) 631-6977	Date Logged In:	05/11/23 15:30	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/12/23 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst)									
DEVON ENERGY - FLOWLINE TO REMUDA BASIN SWD - nAPP2213647597									
			NM Approved Laboratory Results						
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CS-1	5/4/2023	3'	ND	ND	ND	69.9	ND	69.9	ND
CS-2		3'	ND	ND	ND	78.1	ND	78.1	ND
CS-3		3'	ND	ND	ND	89.9	ND	89.9	ND
CS-4		3'	ND	ND	ND	82.8	ND	82.8	ND
CS-5		3'	ND	ND	ND	69.6	ND	69.6	ND
CS-6		3'	ND	ND	ND	77.8	ND	77.8	ND
CSW-1		3'	ND	ND	ND	ND	ND	0	ND
CSW-2		3'	ND	ND	ND	84.7	ND	84.7	ND
CSW-3		3'	ND	ND	ND	67.4	ND	67.4	ND
CSW-4		3'	ND	ND	ND	481	162	643	ND
CSW-5		3'	ND	ND	ND	70.2	ND	70.2	ND
CSW-6		3'	ND	ND	ND	68.1	ND	68.1	ND
CSW-7		3'	ND	ND	ND	71.6	ND	71.6	ND
CSW-8		3'	ND	ND	ND	75.8	ND	75.8	ND
CSW-9		3'	ND	ND	ND	142	69.6	211.6	ND
CSW-10		3'	ND	ND	ND	116	58.2	174.2	ND
CSW-11		3'	ND	ND	ND	93.5	ND	93.5	ND
CSW-12		3'	ND	ND	ND	80.8	ND	80.8	ND
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CSW-4	5/10/2023	4'	ND	ND	ND	ND	ND	0	ND
CSW-9		4'	ND	ND	ND	ND	ND	0	ND
CSW-10		4'	ND	ND	ND	ND	ND	0	ND

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Supply Line to Remuda Basin
SWD

Work Order: E206036

Job Number: 01058-0007

Received: 6/4/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/20/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Supply Line to Remuda Basin SWD
Workorder: E206036
Date Received: 6/4/2022 12:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/4/2022 12:00:00PM, under the Project Name: Supply Line to Remuda Basin SWD.

The analytical test results summarized in this report with the Project Name: Supply Line to Remuda Basin SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S1 - Surface	6
S1 - 1'	7
S2 - Surface	8
S2 - 1'	9
S3 - 6"	10
S4 - 6"	11
S5 - 6"	12
BG1 - Surface	13
BG2- Surface	14
SW1 - 1'	15
SW2 - 1'	16
SW3 - 1'	17
SW4 - 1'	18
SW5 - 1'	19
SW6 - 1'	20
SW7 - 1'	21
SW8 - 1'	22
QC Summary Data	23
QC - Volatile Organics by EPA 8021B	23
QC - Nonhalogenated Organics by EPA 8015D - GRO	24

Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	25
QC - Anions by EPA 300.0/9056A	26
Definitions and Notes	27
Chain of Custody etc.	28

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/20/22 14:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - Surface	E206036-01A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S1 - 1'	E206036-02A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S2 - Surface	E206036-03A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S2 - 1'	E206036-04A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S3 - 6"	E206036-05A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S4 - 6"	E206036-06A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
S5 - 6"	E206036-07A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
BG1 - Surface	E206036-08A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
BG2- Surface	E206036-09A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW1 - 1'	E206036-10A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW2 - 1'	E206036-11A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW3 - 1'	E206036-12A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW4 - 1'	E206036-13A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW5 - 1'	E206036-14A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW6 - 1'	E206036-15A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW7 - 1'	E206036-16A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
SW8 - 1'	E206036-17A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S1 - Surface

E206036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.4 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	17300	1000	50	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S1 - 1'

E206036-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/09/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/09/22	
Toluene	ND	0.0250	1	06/09/22	06/09/22	
o-Xylene	ND	0.0250	1	06/09/22	06/09/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/09/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		06/09/22	06/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		06/09/22	06/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	4970	200	10	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S2 - Surface

E206036-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.5 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	17300	2000	100	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S2 - 1'

E206036-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.9 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.1 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	88.1 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	10200	1000	50	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S3 - 6"

E206036-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.4 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2224048	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2224040	
Chloride	14000	1000	50	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S4 - 6"

E206036-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2224048	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2224040	
Chloride	12900	400	20	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

S5 - 6"

E206036-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.5 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2224048	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	98.0 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2224040	
Chloride	258	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

BG1 - Surface

E206036-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2224051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.8 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2224048	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2224040	
Chloride	57.1	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

BG2- Surface

E206036-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.9 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	ND	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW1 - 1'

E206036-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	113	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW2 - 1'

E206036-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	53.1	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW3 - 1'

E206036-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	74.9	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW4 - 1'

E206036-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	94.9 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	185	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW5 - 1'

E206036-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	42.4	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW6 - 1'

E206036-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.6 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	93.9 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	21.9	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW7 - 1'

E206036-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.8 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	97.4 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	42.6	20.0	1	06/08/22	06/09/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 2:42:35PM

SW8 - 1'

E206036-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Benzene	ND	0.0250	1	06/09/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/09/22	06/10/22	
Toluene	ND	0.0250	1	06/09/22	06/10/22	
o-Xylene	ND	0.0250	1	06/09/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/09/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/09/22	06/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.8 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2224051
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/09/22	06/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.8 %	70-130		06/09/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2224048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		06/09/22	06/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2224040
Chloride	641	200	10	06/08/22	06/09/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 2:42:35PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2224051-BLK1) Prepared: 06/09/22 Analyzed: 06/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			

LCS (2224051-BS1) Prepared: 06/09/22 Analyzed: 06/09/22

Benzene	5.64	0.0250	5.00		113	70-130			
Ethylbenzene	5.58	0.0250	5.00		112	70-130			
Toluene	5.92	0.0250	5.00		118	70-130			
o-Xylene	5.47	0.0250	5.00		109	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.8	0.0250	15.0		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike (2224051-MS1) Source: E206036-02 Prepared: 06/09/22 Analyzed: 06/09/22

Benzene	5.46	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133			
Toluene	5.73	0.0250	5.00	ND	115	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.98		8.00		87.3	70-130			

Matrix Spike Dup (2224051-MSD1) Source: E206036-02 Prepared: 06/09/22 Analyzed: 06/09/22

Benzene	5.51	0.0250	5.00	ND	110	54-133	1.04	20	
Ethylbenzene	5.45	0.0250	5.00	ND	109	61-133	1.53	20	
Toluene	5.82	0.0250	5.00	ND	116	61-130	1.66	20	
o-Xylene	5.34	0.0250	5.00	ND	107	63-131	1.36	20	
p,m-Xylene	11.0	0.0500	10.0	ND	110	63-131	1.50	20	
Total Xylenes	16.4	0.0250	15.0	ND	109	63-131	1.45	20	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		86.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 2:42:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2224051-BLK1) Prepared: 06/09/22 Analyzed: 06/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.4	70-130			

LCS (2224051-BS2) Prepared: 06/09/22 Analyzed: 06/09/22

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

Matrix Spike (2224051-MS2) Source: E206036-02 Prepared: 06/09/22 Analyzed: 06/10/22

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			

Matrix Spike Dup (2224051-MSD2) Source: E206036-02 Prepared: 06/09/22 Analyzed: 06/10/22

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130	7.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 2:42:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2224048-BLK1)					Prepared: 06/09/22 Analyzed: 06/10/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2224048-BS1)					Prepared: 06/09/22 Analyzed: 06/10/22				
Diesel Range Organics (C10-C28)	508	25.0	500		102	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike (2224048-MS1)					Source: E206036-10		Prepared: 06/09/22 Analyzed: 06/10/22		
Diesel Range Organics (C10-C28)	519	25.0	500	ND	104	38-132			
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			

Matrix Spike Dup (2224048-MSD1)					Source: E206036-10		Prepared: 06/09/22 Analyzed: 06/10/22		
Diesel Range Organics (C10-C28)	527	25.0	500	ND	105	38-132	1.45	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 2:42:35PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2224040-BLK1)					Prepared: 06/08/22 Analyzed: 06/09/22				
Chloride	ND	20.0							
LCS (2224040-BS1)					Prepared: 06/08/22 Analyzed: 06/09/22				
Chloride	245	20.0	250		98.1	90-110			
LCS Dup (2224040-BSD1)					Prepared: 06/08/22 Analyzed: 06/09/22				
Chloride	254	20.0	250		102	90-110	3.63	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/20/22 14:42

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program			
Project: Supply Line to Remuda Basin SWD					Attention: Devon Energy					Lab WO# E20100360058-007					1D 2D 3D Standard				CWA SDWA			
Project Manager: Tom Bynum					Address:					Job Number												
Address: 5614 N. Lovington Hwy.					City, State, Zip					Analysis and Method									RCRA			
City, State, Zip Hobbs, NM, 88240					Phone:																	
Phone: 580-748-1613					Email:																	
Email: tom@pimaoil.com					Pima Project # 119																	
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BDOC NM	BDOC TX								
0730	6/1/22	S	1	S1-Surface	1								X									
0735				S1-1'	2																	
0740				S2-Surface	3																	
0745				S2-1'	4																	
0750				S3-6"	5																	
0755				S4-6"	6																	
0800				S5-6"	7																	
0805				BG1-Surface	8																	
0810				BG2-Surface	9																	
0815				SW1-1'	10																	
Additional Instructions: Bill to Devon Energy																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
Relinquished by: (Signature) [Signature]					Date 6-3-22		Time 9:00 A.M.		Received by: (Signature) [Signature]					Date 6-3-22		Time 9:00 A		Lab Use Only				
Relinquished by: (Signature) [Signature]					Date 6-3-22		Time 4:15		Received by: (Signature) [Signature]					Date 6/4/22		Time 12:00		Received on ice: Y / N				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 T2 T3				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services Project: <u>Supply Line to Rinada Basin SWD</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Deron Energy</u> Address: City, State, Zip Phone: Email: Pima Project # <u>119</u>					Lab Use Only Lab WO# <u>E2010310</u> Job Number <u>61058-007</u> Analysis and Method						TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX											
										DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX				NM CO UT AZ TX X							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks															
0900	6/11/22	S	1	SW2-1'	11	X															
0905				SW3-1'	12																
0910				SW4-1'	13																
0915				SW5-1'	14																
0920				SW6-1'	15																
0925				SW7-1'	16																
0930				SW8-1'	17																
Additional Instructions: <u>Bill to Deron Energy</u> I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Scott Henson</u> Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y/N</u>													
<u>Red Rogers</u>		6-3-22	9:00 AM	<u>Lequese Marshall</u>		6-3-22	9:00 AM														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 T1 T2 T3													
<u>Lequese Marshall</u>		6-3-22	4:15	<u>Anton Chuta</u>		6/4/22	12:00														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
		Date	Time			Date	Time														
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 6/7/2022 11:45:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/04/22 12:00	Work Order ID:	E206036
Phone:	(575) 631-6977	Date Logged In:	06/06/22 10:04	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	06/10/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Supply Line to Remuda Basin
SWD

Work Order: E206078

Job Number: 01058-0007

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/20/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Supply Line to Remuda Basin SWD
Workorder: E206078
Date Received: 6/14/2022 11:44:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 11:44:00AM, under the Project Name: Supply Line to Remuda Basin SWD.

The analytical test results summarized in this report with the Project Name: Supply Line to Remuda Basin SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
S1-3'	5
S1-5'	6
S2-3'	7
S2-5'	8
S3-1'	9
S3-3'	10
S3-6'	11
S4-2'	12
S4-4'	13
S5-1'	14
S5-3'	15
S5-6'	16
QC Summary Data	17
QC - Volatile Organics by EPA 8021B	17
QC - Nonhalogenated Organics by EPA 8015D - GRO	18
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	19
QC - Anions by EPA 300.0/9056A	20
Definitions and Notes	21
Chain of Custody etc.	22

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported: 06/20/22 17:41
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-3'	E206078-01A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S1-5'	E206078-02A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S2-3'	E206078-03A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S2-5'	E206078-04A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S3-1'	E206078-05A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S3-3'	E206078-06A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S3-6'	E206078-07A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S4-2'	E206078-08A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S4-4'	E206078-09A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S5-1'	E206078-10A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S5-3'	E206078-11A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.
S5-6'	E206078-12A	Soil	06/08/22	06/14/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S1-3'

E206078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	ND	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/16/22	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/16/22	
Surrogate: n-Nonane	115 %	50-200		06/15/22	06/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	250	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S1-5'

E206078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	ND	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	128 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	ND	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S2-3'

E206078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	ND	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/16/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/15/22	06/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	2060	40.0	2	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S2-5'

E206078-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	ND	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		06/14/22	06/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/16/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/15/22	06/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	ND	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S3-1'

E206078-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	1060	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S3-3'

E206078-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	633	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S3-6'

E206078-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	ND	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S4-2'

E206078-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	1770	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S4-4'

E206078-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/20/22	
Oil Range Organics (C28-C36)	51.3	50.0	1	06/15/22	06/20/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/15/22	06/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	ND	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S5-1'

E206078-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	3710	40.0	2	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S5-3'

E206078-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	1430	20.0	1	06/14/22	06/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Supply Line to Remuda Basin SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/20/2022 5:41:44PM

S5-6'

E206078-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/17/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/17/22	
Toluene	ND	0.0250	1	06/14/22	06/17/22	
o-Xylene	ND	0.0250	1	06/14/22	06/17/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/17/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		06/14/22	06/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		06/15/22	06/17/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	20.9	20.0	1	06/14/22	06/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Supply Line to Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 6/20/2022 5:41:44PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2225015-BLK1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

LCS (2225015-BS1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.52	0.0250	5.00		90.3	70-130			
Toluene	4.77	0.0250	5.00		95.3	70-130			
o-Xylene	4.72	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.29	0.0500	10.0		92.9	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

LCS Dup (2225015-BS1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	5.06	0.0250	5.00		101	70-130	3.91	20	
Ethylbenzene	4.69	0.0250	5.00		93.9	70-130	3.90	20	
Toluene	4.96	0.0250	5.00		99.1	70-130	3.90	20	
o-Xylene	4.90	0.0250	5.00		98.1	70-130	3.92	20	
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130	3.85	20	
Total Xylenes	14.6	0.0250	15.0		97.1	70-130	3.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 5:41:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2225015-BLK1) Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			

LCS (2225015-BS2) Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.4	70-130			

LCS Dup (2225015-BSD2) Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130	3.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Supply Line to Remuda Basin SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 6/20/2022 5:41:44PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2225053-BLK1)

Prepared: 06/15/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.3		50.0		113	50-200			

LCS (2225053-BS1)

Prepared: 06/15/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	480	25.0	500		96.0	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike (2225053-MS1)

Source: E206078-10

Prepared: 06/15/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.9	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike Dup (2225053-MSD1)

Source: E206078-10

Prepared: 06/15/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	484	25.0	500	ND	96.8	38-132	0.931	20	
Surrogate: n-Nonane	54.8		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 5:41:44PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2225018-BLK1)					Prepared: 06/14/22 Analyzed: 06/15/22				
Chloride	ND	20.0							
LCS (2225018-BS1)					Prepared: 06/14/22 Analyzed: 06/15/22				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2225018-MS1)					Source: E206075-01		Prepared: 06/14/22 Analyzed: 06/15/22		
Chloride	312	20.0	250	50.5	105	80-120			
Matrix Spike Dup (2225018-MSD1)					Source: E206075-01		Prepared: 06/14/22 Analyzed: 06/15/22		
Chloride	311	20.0	250	50.5	104	80-120	0.298	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Supply Line to Remuda Basin SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/20/22 17:41

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Supply Line to Remuda Basin SWD</u>					Attention: <u>Devon Energy</u>					Lab WO# <u>E2000078</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:					Analysis and Method									RCRA					
Address: 5614 N. Lovington Hwy.					City, State, Zip																			
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:														State					
Phone: 580-748-1613					Email:																			
Email: tom@pimaoil.com					Pima Project # <u>119</u>																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
0830	6/8/22	S	1	S1-3'	1							X		
0835				S1-5'	2									
0840				S2-3'	3									
0845				S2-5'	4									
0850				S3-1'	5									
0900				S3-3'	6									
0905				S3-6'	7									
0910				S4-2'	8									
0915				S4-4'	9									
0920				S5-1'	10									

Additional Instructions: Bill to Devon Energy - 21030907

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Received by: Scott Henson

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>Mad Roberts</u>	6-10-22	3:05 P	<u>Regan Miller</u>	6-10-22	1:20	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>Regan Miller</u>	6-10-22	4:15	<u>Regan Miller</u>	6/14/22	11:44	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
						AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 6/15/2022 2:42:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/14/22 11:44	Work Order ID:	E206078
Phone:	(575) 631-6977	Date Logged In:	06/14/22 11:43	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	06/17/22 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst)									
DEVON ENERGY - FLOWLINE TO REMUDA BASIN SWD - nAPP2213647597									
Date: 6/1/22 & 6/8/22			NM Approved Laboratory Results						
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	6/1/2022	Surface	ND	ND	ND	ND	ND	0	17300
		1'	ND	ND	ND	ND	ND	0	4970
	6/8/2022	3'	ND	ND	ND	ND	ND	0	250
		5'	ND	ND	ND	ND	ND	0	ND
S-2	6/1/2022	Surface	ND	ND	ND	ND	ND	0	17300
		1'	ND	ND	ND	ND	ND	0	10200
	6/8/2022	3'	ND	ND	ND	ND	ND	0	2060
		5'	ND	ND	ND	ND	ND	0	ND
S-3	6/1/2022	6"	ND	ND	ND	ND	ND	0	14000
	6/8/2022	1'	ND	ND	ND	ND	ND	0	1060
		3'	ND	ND	ND	ND	ND	0	633
		6'	ND	ND	ND	ND	ND	0	ND
S-4	6/1/2022	6"	ND	ND	ND	ND	ND	0	12900
	6/8/2022	2'	ND	ND	ND	ND	ND	0	1770
		4'	ND	ND	ND	ND	ND	0	ND
S-5	6/1/2022	6"	ND	ND	ND	ND	ND	0	258
	6/8/2022	1'	ND	ND	ND	ND	ND	0	3710
		3'	ND	ND	ND	ND	ND	0	1430
		6'	ND	ND	ND	ND	ND	0	20.9
BG-1	6/1/2022	Surface	ND	ND	ND	ND	ND	0	57.1
BG-2		Surface	ND	ND	ND	ND	ND	0	ND
SW-1		1'	ND	ND	ND	ND	ND	0	113
SW-2		1'	ND	ND	ND	ND	ND	0	53.1
SW-3		1'	ND	ND	ND	ND	ND	0	74.9
SW-4		1'	ND	ND	ND	ND	ND	0	185
SW-5		1'	ND	ND	ND	ND	ND	0	42.4
SW-6		1'	ND	ND	ND	ND	ND	0	21.9
SW-7		1'	ND	ND	ND	ND	ND	0	42.6
SW-8		1'	ND	ND	ND	ND	ND	0	641



Appendix B

Photographic Documentation with Correct Labeling



North of Lease Road Curve
Looking Southeast
32.298405, -103.913347

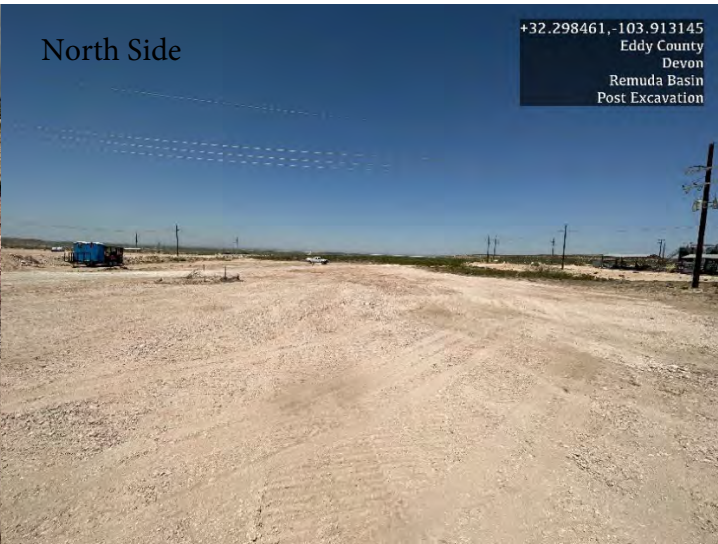
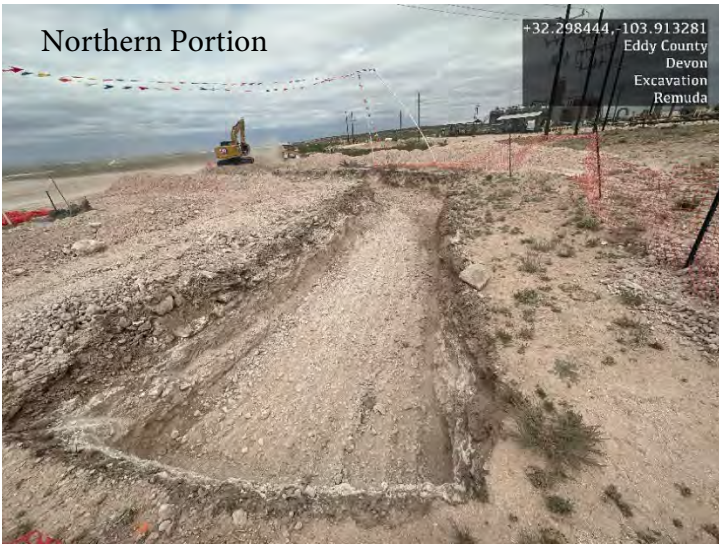


East side by POR
Looking west
32.298221, -103.912880



South side of release
Looking north
32.297938, -103.913266







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

QUESTIONS

Action 356998

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	356998
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2213647597
Incident Name	NAPP2213647597 FLOW LINE SUPPLYING REMUDA BASIN SWD @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.

Site Name	FLOW LINE SUPPLYING REMUDA BASIN SWD
Date Release Discovered	05/13/2022
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The 4" ploy inlet line to the Remuda Basin SWD was struck by an unknown object cutting a gash into the line. Fluids were not in a lined/unlined containment. Fluids were not on pad. Fluids were offsite. Valves on both side of the breach were turned off thus isolating the line and stopping the leak.

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QUESTIONS, Page 2

Action 356998

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	356998
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 06/24/2024
--	--

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 356998

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 356998
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	17300
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	643
GRO+DRO	(EPA SW-846 Method 8015M)	481
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	07/08/2024
On what date will (or did) the final sampling or liner inspection occur	10/08/2024
On what date will (or was) the remediation complete(d)	10/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	10500
What is the estimated volume (in cubic yards) that will be remediated	1166

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 356998

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 356998
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/24/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 356998

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 356998
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 356998

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 356998
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	302152
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/12/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2114

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 356998

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 356998
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Note that sampling notifications should be submitted two business days prior to confirmation sample collection, not 48 hours, pursuant to 19.15.29.12D(1)a NMAC. Resubmit report by 7/25/24.	6/25/2024