

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: Dale Woodall Date: 2/23/2023
 email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 6/27/2023
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

February 16, 2023

NMOCD District 2
 811 S. First Street
 Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Spica 25 Fed 3H
API No. 30-015-40220
GPS: Latitude 32.628933 Longitude -103.830276
UL -- L, 25, T19S, R31E
Eddy County, NM
NMOCD Ref. No. NAPP2225823991

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the Spica 25 Fed 3H (Spica). The initial C-141 was submitted on September 29, 2022 (Appendix C). This incident was assigned Incident ID NAPP2225823991 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Spica is located approximately twenty (20) miles southwest of Eunice, NM. This spill site is in Unit L, Section 25, Township 19S, Range 31E, Latitude 32.628933 Longitude -103.830276, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Wink loamy fine sand, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Spica (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 130 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 650 feet BGS. The closest waterway is a Salt Playa located approximately 2.83 miles to the north of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAPP2225823991: On September 13, 2022, A flowline developed a leak causing fluid to run into the pasture. The released fluids were calculated to be approximately 3 barrels (bbls) of produced water. Vacuum trucks couldn't recover any fluid.

Remediation Activities, Site Assessment, and Soil Sampling Results

On September 20, 2022, Pima mobilized personnel to the site to begin collecting soil samples from the affected area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

9-20-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - SPICA 25 FED #3H								
Sample Date: 9/20/22		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	Cl mg/kg
S-1	2'	3.56	ND	75.6	1910	640	2625.6	12200
	3'	0.201	ND	ND	688	314	1002	3690
	4'	ND	ND	ND	ND	ND	0	83.7
S-2	2'	14.1	ND	ND	7220	2630	9850	12600
	3'	0.0275	ND	ND	239	125	364	3510
	4'	ND	ND	ND	ND	ND	0	ND
S-3	2'	12.8	0.117	200	7260	2500	9960	31.6
	3'	ND	ND	ND	ND	ND	0	4020
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	1'	ND	ND	ND	ND	ND	0	ND
SW 2	1'	ND	ND	ND	ND	ND	0	ND
SW 3	1'	ND	ND	ND	ND	ND	0	ND
SW 4	4'	ND	ND	ND	ND	ND	0	ND
SW 5	5'	ND	ND	ND	ND	ND	0	ND
SW 6	6"	ND	ND	ND	ND	ND	0	ND
SW 7	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND
BG 2	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On January 23, 2023, the Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the areas from S-1 through S 3 to a depth of 4' BGS. Pima personnel collected samples to verify all contaminated soil had been removed. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On February 3, 2023, after sending a 48-hour notification (Appendix C), Pima began collecting confirmation samples of the affected areas. The laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

2-3-23 Confirmation Samples Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - SPICA 25 FED #3H								
Sample Date: 2/3/2023		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	Cl mg/kg
CS-1	4'	ND	ND	ND	ND	ND	0	ND
CS-2	4'	ND	ND	ND	ND	ND	0	ND
CS-3	4'	ND	ND	ND	ND	ND	0	ND
CS-4	4'	ND	ND	ND	ND	ND	0	ND
CS-5	4'	ND	ND	ND	ND	ND	0	ND
CS-6	4'	ND	ND	ND	ND	ND	0	ND
CS-7	4'	ND	ND	ND	ND	ND	0	ND
CS-8	4'	ND	ND	ND	ND	ND	0	ND
CS-9	4'	ND	ND	ND	ND	ND	0	ND
CS-10	4'	ND	ND	ND	ND	ND	0	ND
CS-11	4'	ND	ND	ND	ND	ND	0	ND
CS-12	4'	ND	ND	ND	ND	ND	0	ND
CS-13	4'	ND	ND	ND	ND	ND	0	ND
CS-14	4'	ND	ND	ND	ND	ND	0	ND
CS-15	4'	ND	ND	ND	ND	ND	0	ND
CS-16	4'	ND	ND	ND	ND	ND	0	ND
CSW-1	4'	ND	ND	ND	ND	ND	0	ND
CSW-2	4'	ND	ND	ND	ND	ND	0	ND
CSW-3	4'	ND	ND	ND	ND	ND	0	ND
CSW-4	4'	ND	ND	ND	ND	ND	0	ND

CSW-5	4'	ND	ND	ND	ND	ND	0	ND
CSW-6	4'	ND	ND	ND	ND	ND	0	ND
CSW-7	4'	ND	ND	ND	ND	ND	0	ND
CSW-8	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
CSW-11	4'	ND	ND	ND	ND	ND	0	ND
CSW-12	4'	ND	ND	ND	ND	ND	0	ND
CSW-13	4'	ND	ND	ND	ND	ND	0	ND
CSW-14	4'	ND	ND	ND	ND	ND	0	ND
CSW-15	4'	ND	ND	ND	ND	ND	0	ND
CSW-16	4'	ND	ND	ND	ND	ND	0	ND
CSW-17	4'	ND	ND	ND	ND	ND	0	ND
CSW-18	4'	ND	ND	ND	ND	ND	0	ND
CSW-19	4'	ND	ND	ND	ND	ND	0	ND
CSW-20	4'	ND	ND	ND	ND	ND	0	ND
CSW-21	4'	ND	ND	ND	ND	ND	0	ND
CSW-22	4'	ND	ND	ND	ND	ND	0	ND
CSW-23	4'	ND	ND	ND	ND	ND	0	ND
CSW-24	4'	ND	ND	ND	ND	ND	0	ND
CSW-25	4'	ND	ND	ND	ND	ND	0	ND
CSW-26	4'	ND	ND	ND	ND	ND	0	ND
CSW-27	4'	ND	ND	ND	ND	ND	0	ND
CSW-28	4'	ND	ND	ND	ND	ND	0	ND
CSW-29	4'	ND	ND	ND	ND	ND	0	ND
CSW-30	4'	ND	ND	ND	ND	ND	0	ND
CSW-31	4'	ND	ND	ND	ND	ND	0	ND
CSW-32	4'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NAPP2225823991 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

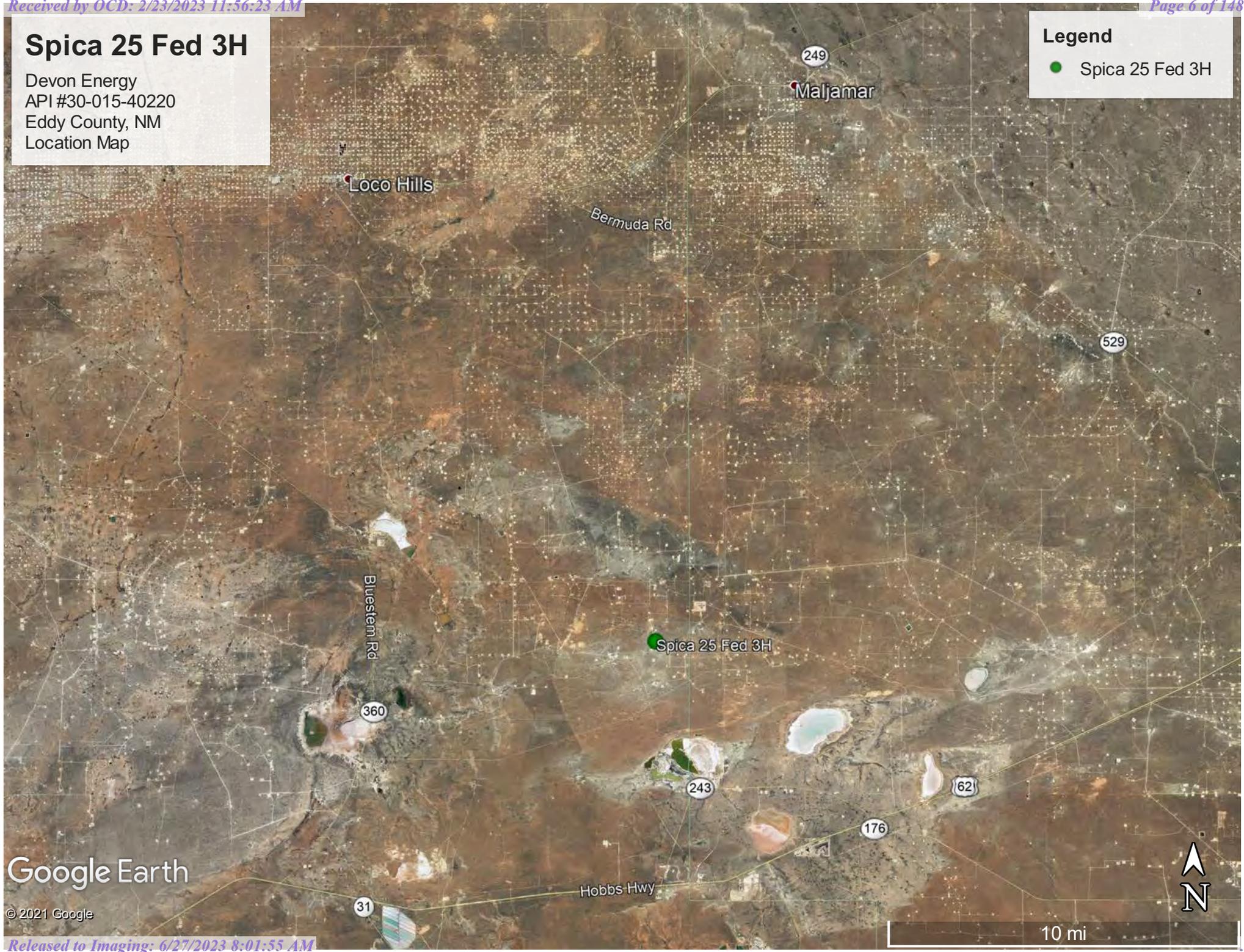
5-Confirmation Site Map

Spica 25 Fed 3H

Devon Energy
API #30-015-40220
Eddy County, NM
Location Map

Legend

- Spica 25 Fed 3H



Google Earth

© 2021 Google

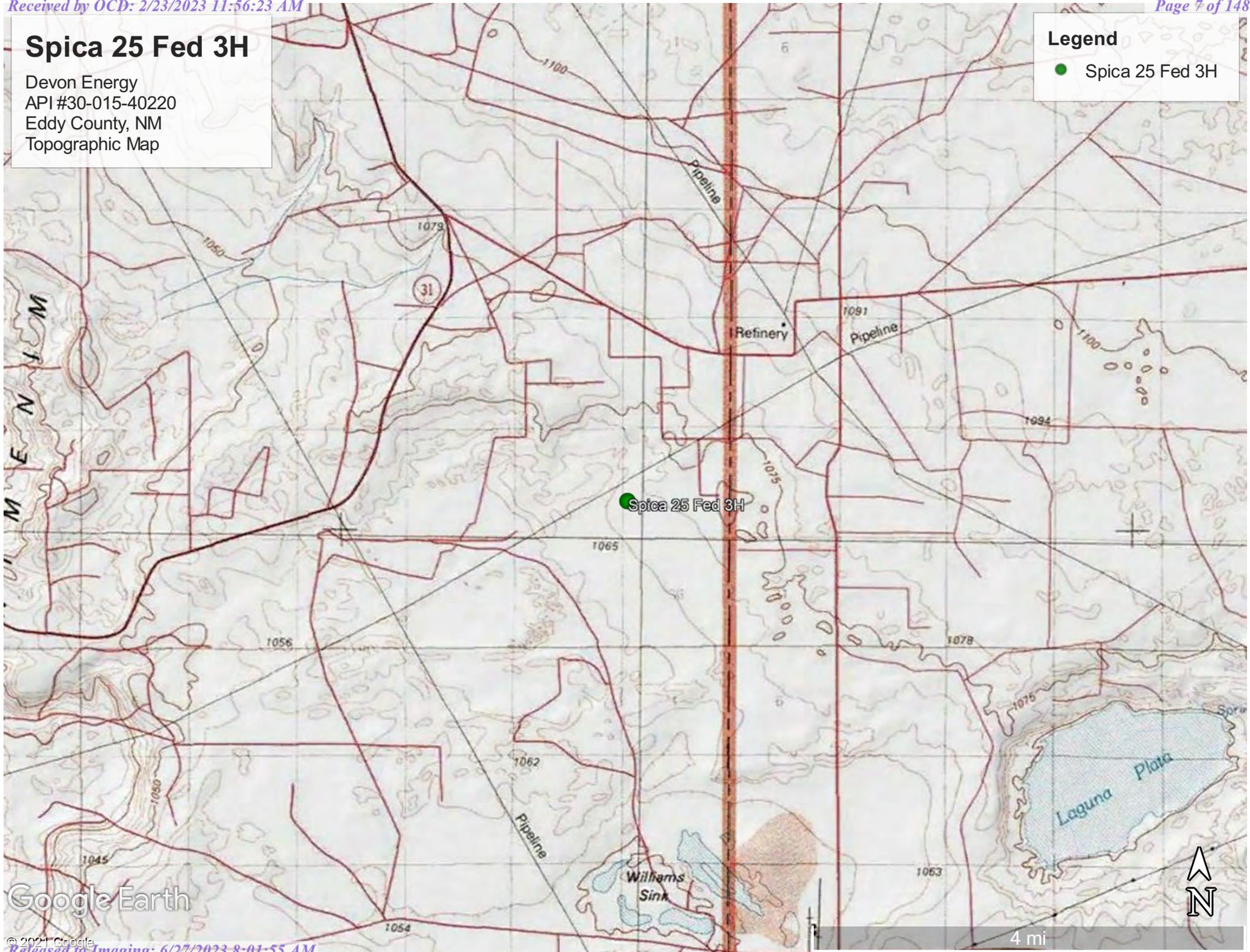


Spica 25 Fed 3H

Devon Energy
API #30-015-40220
Eddy County, NM
Topographic Map

Legend

- Spica 25 Fed 3H



Google Earth

4 mi

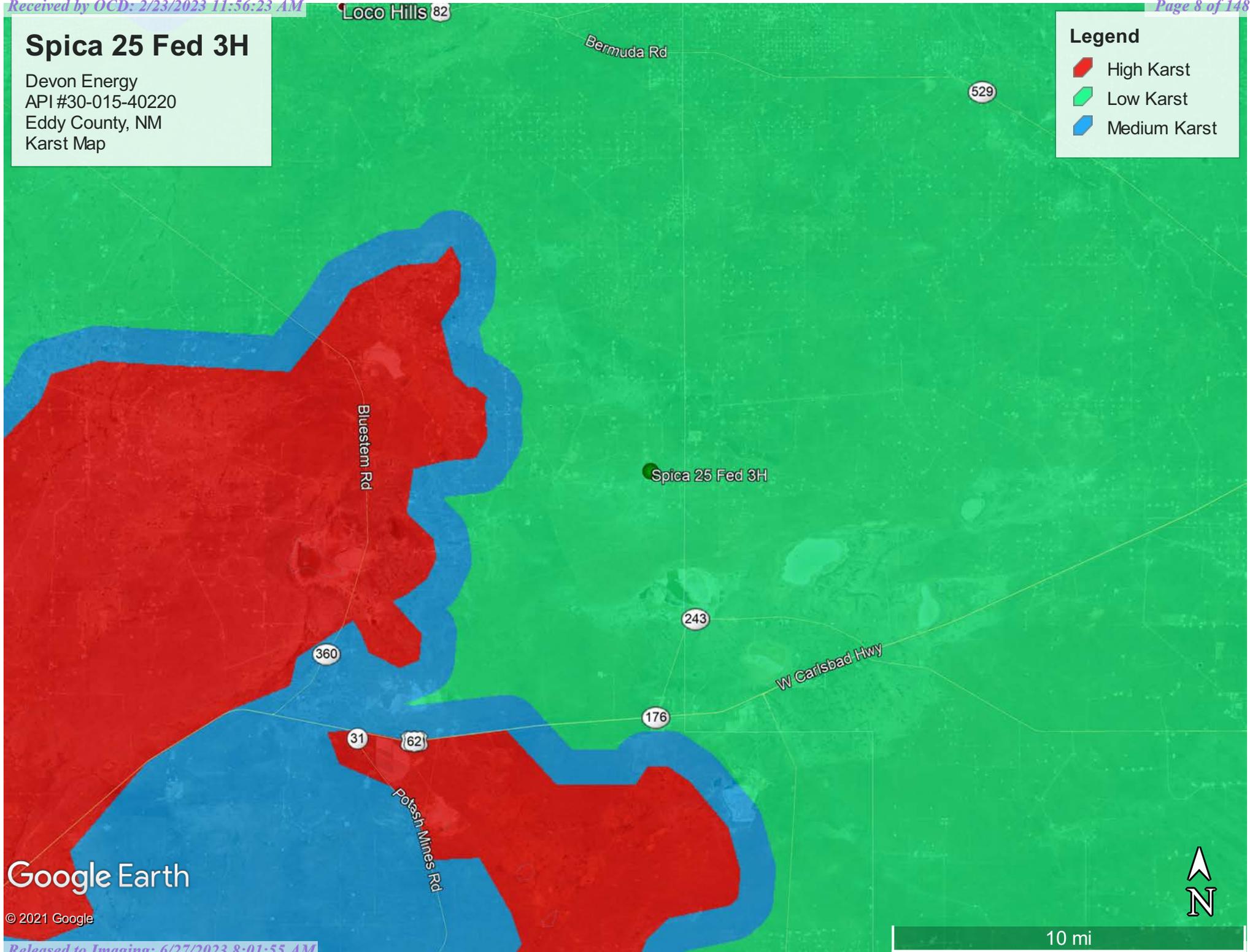


Spica 25 Fed 3H

Devon Energy
API #30-015-40220
Eddy County, NM
Karst Map

Legend

- High Karst
- Low Karst
- Medium Karst



Google Earth

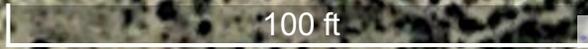
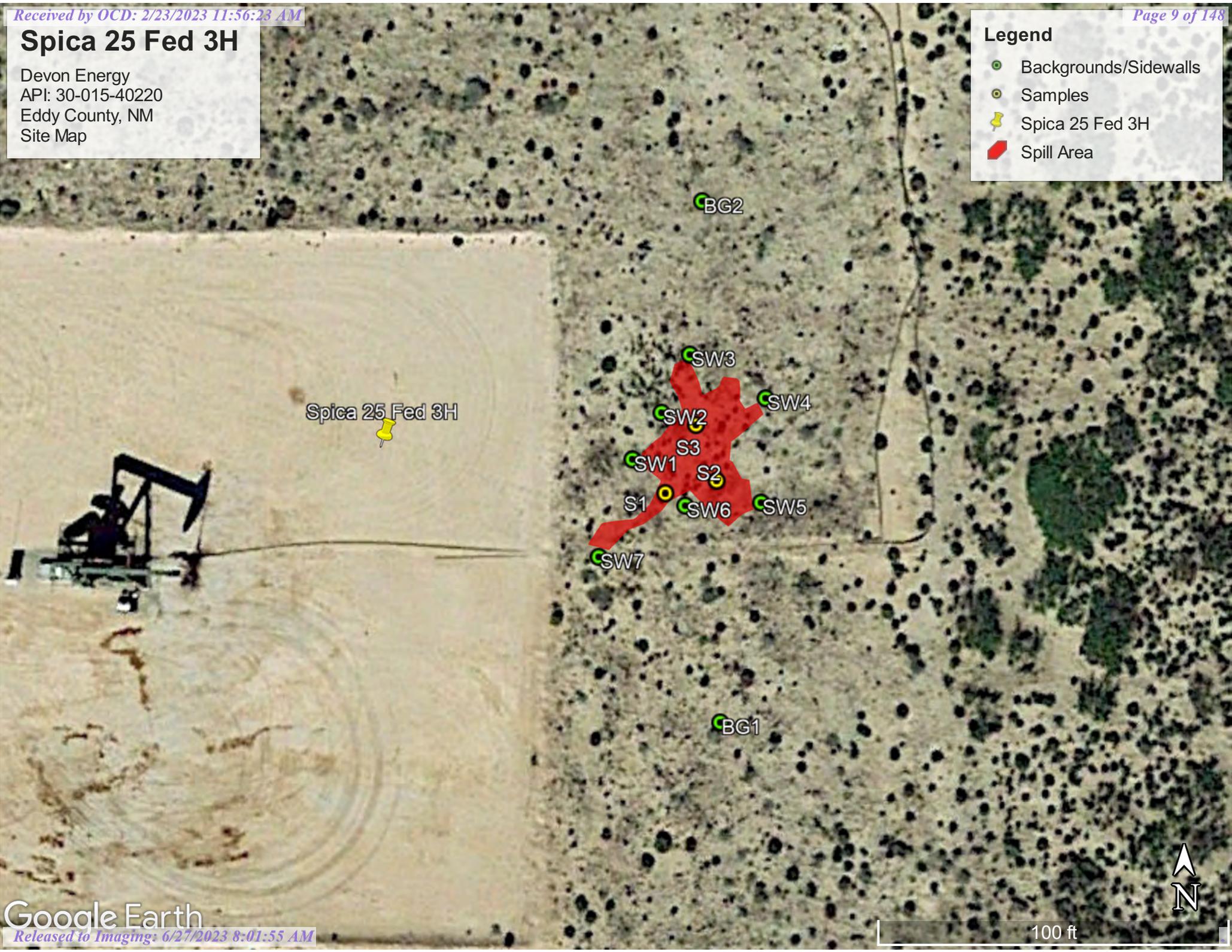
© 2021 Google

Spica 25 Fed 3H

Devon Energy
API: 30-015-40220
Eddy County, NM
Site Map

Legend

-  Backgrounds/Sidewalls
-  Samples
-  Spica 25 Fed 3H
-  Spill Area

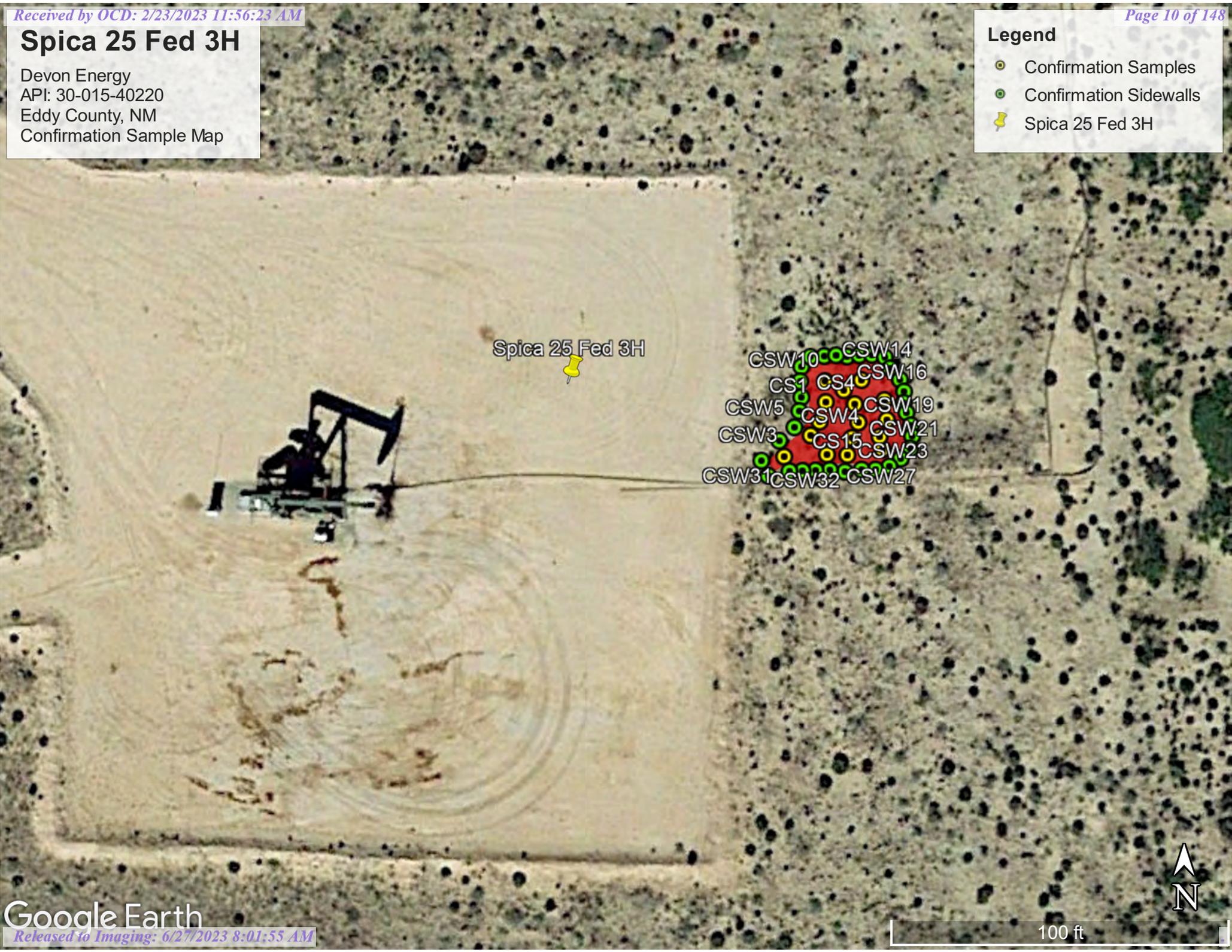


Spica 25 Fed 3H

Devon Energy
API: 30-015-40220
Eddy County, NM
Confirmation Sample Map

Legend

-  Confirmation Samples
-  Confirmation Sidewalls
-  Spica 25 Fed 3H



Spica 25 Fed 3H

CSW10 CSW14
 CS1 CS4 CSW16
 CSW5 CSW4 CSW19
 CSW3 CS15 CSW21
 CSW23
 CSW31 CSW32 CSW27





Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00641 POD1	CP	ED	ED	4	1	36	19S	31E	610247	3609634*		1260	300	130	170
CP 00642 POD1	CP	ED	ED	2	2	25	19S	31E	611025	3611657*		1586	250		
CP 00563 POD1	CP	LE	LE	1	1	2	19S	32E	612118	3613376*		3547	300		
CP 01554 POD2	CP	LE	LE	2	2	1	22	19S	31E	607165	3613322		3600	400	
CP 01554 POD1	CP	LE	LE	2	2	1	22	19S	31E	607166	3613354		3623	400	
CP 00640 POD1	CP	LE	LE	2	2	19	19S	32E	612621	3613280*		3843	260	102	158
CP 00639 POD1	CP	LE	LE	3	1	20	19S	32E	613029	3612880*		3932	350	345	5

Average Depth to Water: **192 feet**
 Minimum Depth: **102 feet**
 Maximum Depth: **345 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 609707.96

Northing (Y): 3610773.1

Radius: 4000

*UTM location was derived from PLSS - see Help

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

3/22/21 4:44 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the **NEW** [USGS National Water Dashboard](#) to access real-time data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

site_no list =

- 323712103491001

Minimum number of levels = 1

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

USGS 323712103491001 19S.32E.31.114

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'12", Longitude 103°49'10" NAD27

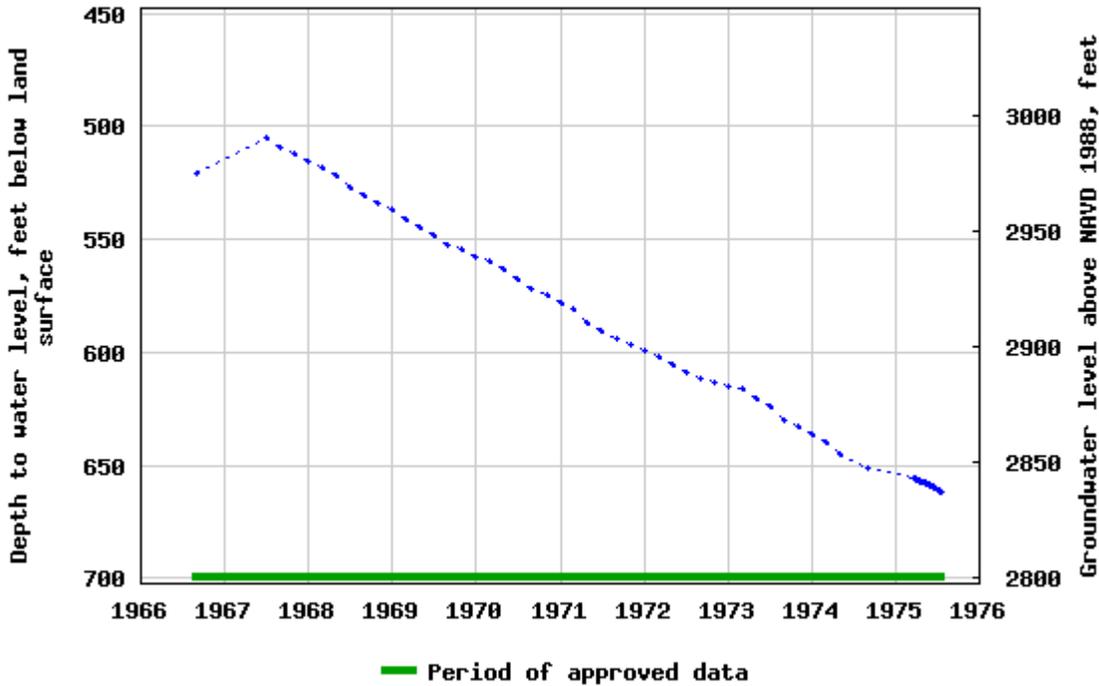
Land-surface elevation 3,497 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

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

USGS 323712103491001 19S.32E.31.114



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-04-12 13:14:08 EDT

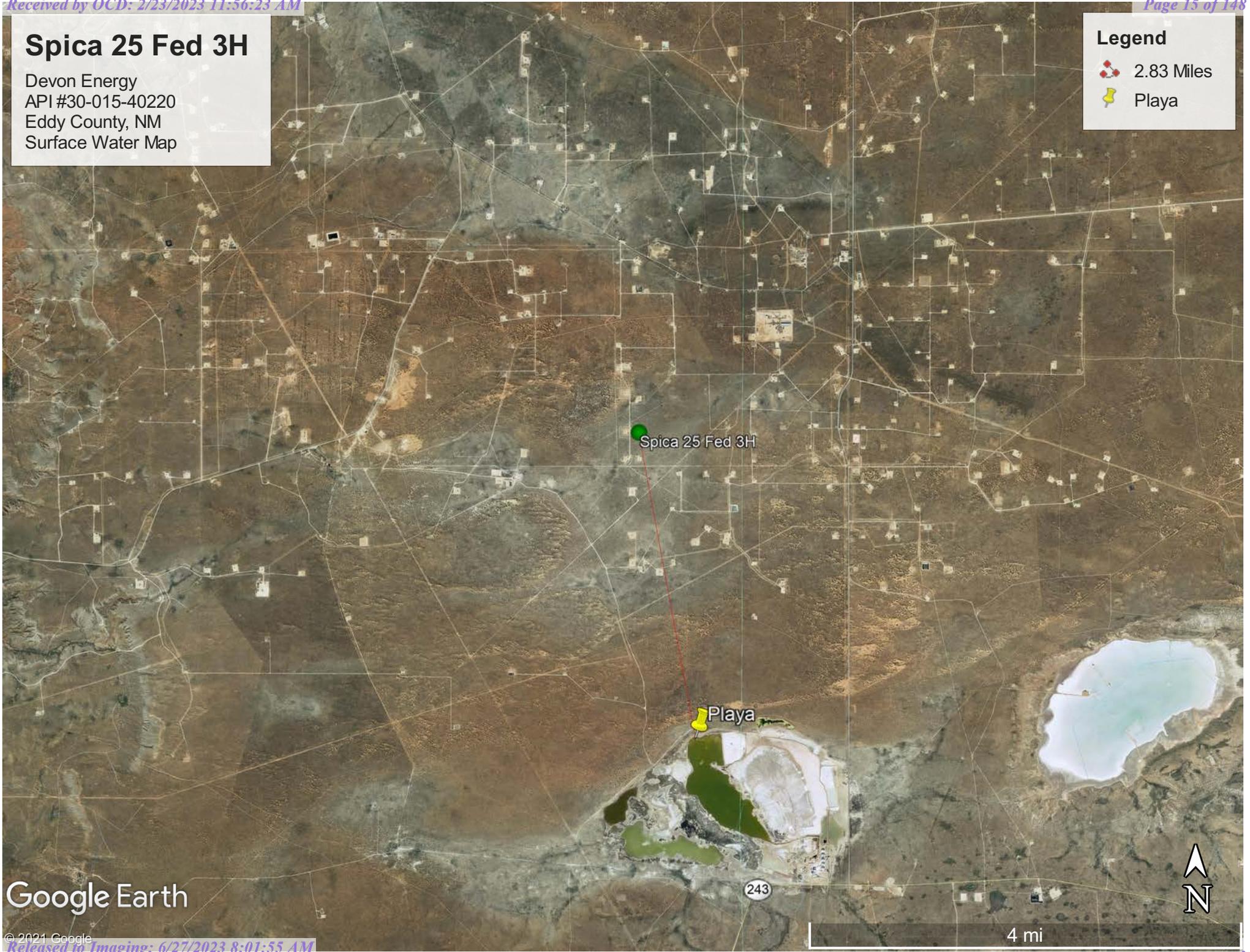
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Spica 25 Fed 3H

Devon Energy
API #30-015-40220
Eddy County, NM
Surface Water Map

Legend

-  2.83 Miles
-  Playa



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w6c
Elevation: 2,700 to 5,000 feet
Mean annual precipitation: 5 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wink

Setting

Landform: Swales, depressions
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: loamy fine sand
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 1 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Simona

Percent of map unit: 1 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°50'8"W 32°37'59"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



Wetlands Map



September 21, 2022

Wetlands

-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Lake
-  Estuarine and Marine Wetland
-  Freshwater Forested/Shrub Wetland
-  Other
-  Freshwater Pond
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone
Contact email Dale.Woodall@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.628933 Longitude -103.830276
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Spica 25 fed 3H	Site Type Oil
Date Release Discovered 9/13/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	25	19S	31E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3 BBLS	Volume Recovered (bbls) 0 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Flowline developed leak. Fluid ran into pasture.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Spill went off pad.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR notice on OCD website by Dale Woodall on 9/15/2022.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kendra Ruiz</u> Title: <u>EHS Associate</u> Signature: <u><i>Kendra Ruiz</i></u> Date: <u>9/29/2022</u> email: <u>Kendra.Ruiz@dvn.com</u> Telephone: <u>575-748-0167</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>09/29/2022</u>

Spill Volume(Bbls) Calculator	
<i>Inputs in blue , Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
2047.786	0.500
Cubic Feet of Soil Impacted	85.324
Barrels of Soil Impacted	15.21
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	3.04
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.30
Free Standing Fluid Only ☒	
Area (square feet)	Depth(inches)
2047.786	0.125
904.046	
Total fluids spilled	3.042

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

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 147507

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 147507
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/29/2022

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: EHS Professional

Signature: *Dale Woodall* Date: 2/23/2023

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

Incident ID	nAPP2225823991
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: Dale Woodall Date: 2/23/2023
 email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Confirmation of Sampling Spica 25 Fed 3H

1 message

Gio PimaOil <gio@pimaoil.com>

Thu, Jan 26, 2023 at 2:31 PM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Afternoon,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Spica 25 Federal 3H for incidents NAB1718649427 & NAPP225823991 . Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Sunday, January 29, 2023. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



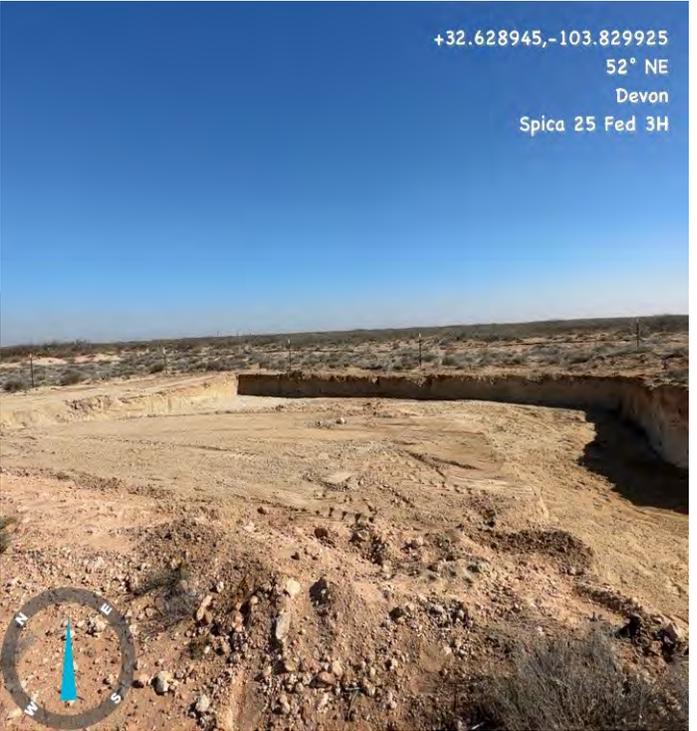
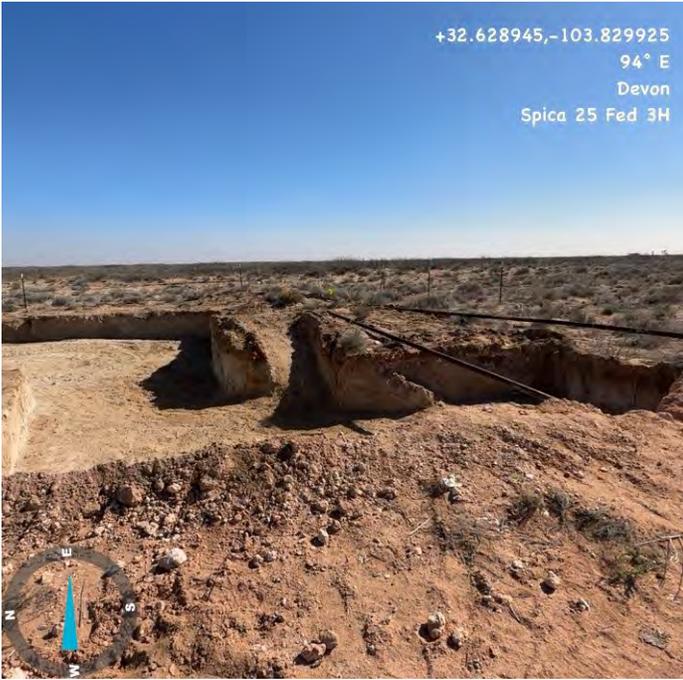
**SITE PHOTOGRAPHS
DEVON ENERGY
SPICA 25 FED 3H**

Pre-Excavation





Excavation







Post Excavation





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E209135

Job Number: 01058-0007

Received: 9/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/29/22

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: 9/29/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Spica 25 Fed 3H
Workorder: E209135
Date Received: 9/23/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2022 10:30:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
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	5
Sample Data	6
S.4 1'	6
S.4 4'	7
S.4 5'	8
S.5 1'	9
S.5 4'	10
S.5 5'	11
S.6 1'	12
S.7 1'	13
S.8 1'	14
S.9 1'	15
S.10 1'	16
S.11 1'	17
S.11 4'	18
S.11 5'	19
SW8	20
SW9	21
SW10	22
SW11	23
SW12	24
SW13	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA 8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

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

Project Name: Spica 25 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
09/29/22 16:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.4 1'	E209135-01A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.4 4'	E209135-02A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.4 5'	E209135-03A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 1'	E209135-04A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 4'	E209135-05A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 5'	E209135-06A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.6 1'	E209135-07A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.7 1'	E209135-08A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.8 1'	E209135-09A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.9 1'	E209135-10A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.10 1'	E209135-11A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 1'	E209135-12A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 4'	E209135-13A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 5'	E209135-14A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW8	E209135-15A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW9	E209135-16A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW10	E209135-17A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW11	E209135-18A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW12	E209135-19A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW13	E209135-20A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
---	---	---

S.4 1'
E209135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.8 %	70-130		09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.8 %	70-130		09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>	98.5 %	50-200		09/27/22	09/28/22	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2240006
Chloride	1450	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
---	---	---

S.4 4'

E209135-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	3300	40.0	2	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
---	---	---

S.4 5'

E209135-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		97.5 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
---	---	---

S.5 1'

E209135-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1940	40.0	2	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.5 4'

E209135-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1320	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.5 5'

E209135-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.5 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.5 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.6 1'

E209135-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.7 1'

E209135-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		99.9 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	24.0	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.8 1'

E209135-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	33.5	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.9 1'

E209135-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	39.6	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		112 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	42.1	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.10 1'

E209135-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	75.9	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.11 1'
E209135-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1130	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.11 4'

E209135-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	3730	40.0	2	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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S.11 5'

E209135-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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SW8

E209135-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		92.2 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/29/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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SW9

E209135-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		90.9 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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**SW10
E209135-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		89.5 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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**SW11
E209135-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.9 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		88.3 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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SW12
E209135-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		89.4 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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SW13
E209135-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.5 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
<i>Surrogate: Bromofluorobenzene</i>		97.1 %	70-130	09/23/22	09/27/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.5 %	70-130	09/23/22	09/27/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/23/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
<i>Surrogate: n-Nonane</i>		89.9 %	50-200	09/27/22	09/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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Volatile Organic Compounds by EPA 8260B

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 (2239114-BLK1)

Prepared: 09/23/22 Analyzed: 09/27/22

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: Bromofluorobenzene	0.477		0.500		95.3		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8		70-130		
Surrogate: Toluene-d8	0.529		0.500		106		70-130		

LCS (2239114-BS1)

Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.14	0.0250	2.50		85.7		70-130		
Ethylbenzene	2.19	0.0250	2.50		87.5		70-130		
Toluene	2.17	0.0250	2.50		86.6		70-130		
o-Xylene	2.05	0.0250	2.50		82.0		70-130		
p,m-Xylene	4.06	0.0500	5.00		81.2		70-130		
Total Xylenes	6.11	0.0250	7.50		81.5		70-130		
Surrogate: Bromofluorobenzene	0.498		0.500		99.5		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7		70-130		
Surrogate: Toluene-d8	0.529		0.500		106		70-130		

Matrix Spike (2239114-MS1)

Source: E209135-01

Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.13	0.0250	2.50	ND	85.2		48-131		
Ethylbenzene	2.19	0.0250	2.50	ND	87.6		45-135		
Toluene	2.14	0.0250	2.50	ND	85.6		48-130		
o-Xylene	2.06	0.0250	2.50	ND	82.4		43-135		
p,m-Xylene	4.06	0.0500	5.00	ND	81.2		43-135		
Total Xylenes	6.12	0.0250	7.50	ND	81.6		43-135		
Surrogate: Bromofluorobenzene	0.501		0.500		100		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102		70-130		
Surrogate: Toluene-d8	0.531		0.500		106		70-130		

Matrix Spike Dup (2239114-MSD1)

Source: E209135-01

Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.14	0.0250	2.50	ND	85.6		48-131	0.468	23
Ethylbenzene	2.15	0.0250	2.50	ND	85.9		45-135	1.98	27
Toluene	2.11	0.0250	2.50	ND	84.5		48-130	1.27	24
o-Xylene	2.01	0.0250	2.50	ND	80.4		43-135	2.48	27
p,m-Xylene	3.97	0.0500	5.00	ND	79.5		43-135	2.13	27
Total Xylenes	5.98	0.0250	7.50	ND	79.8		43-135	2.25	27
Surrogate: Bromofluorobenzene	0.499		0.500		99.8		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0		70-130		
Surrogate: Toluene-d8	0.528		0.500		106		70-130		



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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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 (2239114-BLK1)

Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2239114-BS2)

Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike (2239114-MS2)

Source: E209135-01

Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2239114-MSD2)

Source: E209135-01

Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	8.58	20	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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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 (2240015-BLK1)

Prepared: 09/27/22 Analyzed: 09/28/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2240015-BS1)

Prepared: 09/27/22 Analyzed: 09/28/22

Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: n-Nonane	44.2		50.0		88.3	50-200			

Matrix Spike (2240015-MS1)

Source: E209135-15

Prepared: 09/27/22 Analyzed: 09/28/22

Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.2	38-132			
Surrogate: n-Nonane	44.1		50.0		88.3	50-200			

Matrix Spike Dup (2240015-MSD1)

Source: E209135-15

Prepared: 09/27/22 Analyzed: 09/28/22

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.7	38-132	1.62	20	
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
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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
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Blank (2240006-BLK1)

Prepared: 09/26/22 Analyzed: 09/28/22

Chloride ND 20.0

LCS (2240006-BS1)

Prepared: 09/26/22 Analyzed: 09/28/22

Chloride 246 20.0 250 98.6 90-110

Matrix Spike (2240006-MS1)

Source: E209135-01

Prepared: 09/26/22 Analyzed: 09/28/22

Chloride 1720 20.0 250 1450 107 80-120

Matrix Spike Dup (2240006-MSD1)

Source: E209135-01

Prepared: 09/26/22 Analyzed: 09/28/22

Chloride 1680 20.0 250 1450 90.8 80-120 2.35 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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/29/22 16:39

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

Client: Pima Environmental Services Project: Spica 25 Fed 3H Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 15-1		Lab Use Only Lab Work: E 20135 Job Number: 01058-007		TAT 1D 2D 3D Standard X		EPA Program CWA SDWA RCRA	
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method										State					Remarks
						DRO/DRO 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			
9:00	9/21/22	S	1	S.4 1'	1											X					
9:05				S.4 4'	2																
9:10				S.4 5'	3																
9:15				S.5 1'	4																
9:20				S.5 4'	5																
9:25				S.5 5'	6																
9:30				S.6 1'	7																
9:35				S.7 1'	8																
9:40				S.8 1'	9																
9:45				S.9 1'	10																

Additional Instructions: Billing 21073416

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) <i>[Signature]</i> Date: 9/22/22 Time: 3:00 Received by: (Signature) <i>[Signature]</i> Date: 9/22/22 Time: 3:00		Relinquished by: (Signature) <i>[Signature]</i> Date: 9/22/22 Time: 4:15 Received by: (Signature) <i>[Signature]</i> Date: 9/23/22 Time: 10:30		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. Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		T1 T2 T3 AVG Temp °C 4	

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

Client: Pima Environmental Services Project: SPICA 25 Fed 3H Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 15-1		Lab Use Only Lab WO# E-209135 Job Number 01058-0007		TAT 1D 2D 3D X			EPA Program CWA SDWA RCRA	
Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					Standard X		State NM CO UT AZ TX X			

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
9:50	9/20/22	S	1	S.10 1'	11							X		
9:55				S.11 1'	12									
10:00				S.11 4'	13									
10:05				S.11 5'	14									
10:10				SW 8	15									
10:15				SW 9	16									
10:20				SW 10	17									
10:25				SW 11	18									
10:30				SW 12	19									
10:35				SW 13	20									

Additional Instructions: Billing # 21073416

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) *[Signature]* Date 9/22/22 Time 3:00 Received by: (Signature) *[Signature]* Date 9/22/22 Time 3:00
 Relinquished by: (Signature) *[Signature]* Date 9-22-22 Time 4:15 Received by: (Signature) *[Signature]* Date 9/23/22 Time 10:30
 Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

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.

Received on ice: Y / N

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: 9/23/2022 11:28:30AM

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: 09/23/22 10:30	Work Order ID: E209135
Phone: (575) 631-6977	Date Logged In: 09/23/22 09:34	Logged In By: Caitlin Christian
Email: tom@pimaoil.com	Due Date: 09/29/22 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

Carrier: UPS

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

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.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E302026

Job Number: 01058-0007

Received: 2/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/23

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: 2/8/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Spica 25 Fed 3H
Workorder: E302026
Date Received: 2/7/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/7/2023 8:15:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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
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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	6
CS2	7
CS3	8
CS4	9
CS5	10
CS6	11
CS7	12
CS8	13
CS9	14
CS10	15
CS11	16
CS12	17
CS13	18
CS14	19
CS15	20
CS16	21
CSW1	22
CSW2	23
CSW3	24
CSW4	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 02/08/23 15:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E302026-01A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS2	E302026-02A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS3	E302026-03A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS4	E302026-04A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS5	E302026-05A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS6	E302026-06A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS7	E302026-07A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS8	E302026-08A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS9	E302026-09A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS10	E302026-10A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS11	E302026-11A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS12	E302026-12A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS13	E302026-13A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS14	E302026-14A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS15	E302026-15A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CS16	E302026-16A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW1	E302026-17A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW2	E302026-18A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW3	E302026-19A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW4	E302026-20A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS1

E302026-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL	Batch: 2306012	
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL	Batch: 2306012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.8 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: RAS	Batch: 2306020	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		81.0 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA	Batch: 2306025	
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS2

E302026-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		81.7 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS3

E302026-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		78.6 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS4

E302026-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		81.4 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS5

E302026-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS6

E302026-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS7

E302026-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.8 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS8

E302026-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		99.3 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS9

E302026-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.3 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		104 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS10

E302026-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS11

E302026-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS12

E302026-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.8 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS13

E302026-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		94.1 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS14

E302026-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		99.3 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS15

E302026-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		96.8 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CS16

E302026-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		101 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CSW1

E302026-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CSW2

E302026-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CSW3

E302026-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		106 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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CSW4

E302026-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2306012
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306020
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306025
Chloride	ND	20.0	1	02/07/23	02/07/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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Volatile Organics by EPA 8021B

Analyst: SL

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 (2306012-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

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	8.12		8.00		101	70-130			

LCS (2306012-BS1)

Prepared: 02/06/23 Analyzed: 02/06/23

Benzene	4.75	0.0250	5.00		94.9	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.4	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.33		8.00		104	70-130			

LCS Dup (2306012-BSD1)

Prepared: 02/06/23 Analyzed: 02/07/23

Benzene	4.47	0.0250	5.00		89.4	70-130	5.99	20	
Ethylbenzene	4.54	0.0250	5.00		90.9	70-130	5.54	20	
Toluene	4.65	0.0250	5.00		93.0	70-130	5.69	20	
o-Xylene	4.67	0.0250	5.00		93.4	70-130	6.24	20	
p,m-Xylene	9.25	0.0500	10.0		92.5	70-130	5.21	20	
Total Xylenes	13.9	0.0250	15.0		92.8	70-130	5.56	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2306012-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

LCS (2306012-BS2)

Prepared: 02/06/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS Dup (2306012-BSD2)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130	1.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

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
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Blank (2306020-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			

LCS (2306020-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	233	25.0	250		93.1	38-132			
Surrogate: n-Nonane	39.4		50.0		78.9	50-200			

Matrix Spike (2306020-MS1)

Source: E302026-01

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	209	25.0	250	ND	83.7	38-132			
Surrogate: n-Nonane	39.6		50.0		79.3	50-200			

Matrix Spike Dup (2306020-MSD1)

Source: E302026-01

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	210	25.0	250	ND	83.9	38-132	0.167	20	
Surrogate: n-Nonane	39.9		50.0		79.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:00:26PM
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Anions by EPA 300.0/9056A

Analyst: BA

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 (2306025-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride ND 20.0

LCS (2306025-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride 255 20.0 250 102 90-110

Matrix Spike (2306025-MS1)

Source: E302026-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride 253 20.0 250 ND 101 80-120

Matrix Spike Dup (2306025-MSD1)

Source: E302026-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride 255 20.0 250 ND 102 80-120 0.721 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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/08/23 15:00

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.



Client: Pima Environmental Services
 Project: Spica 25 Feb 3H
 Project Manager: Tom Bynum
 Address: 56 14 N. Lovington Hwy.
 City, State, Zip Hobbs, NM, 88240
 Phone: 580-748-1613
 Email: tom@pimaoil.com
 Report due by:

Bill To
 Attention: Devon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 1-15

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E 302026	01058-0007	X					
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						X	
State							
NM	CO	UT	AZ	TX			
X							

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
9:00	2/3/23	S	1	CS1	1							X		
9:05				CS2	2									
9:10				CS3	3									
9:15				CS4	4									
9:20				CS5	5									
9:25				CS6	6									
9:30				CS7	7									
9:35				CS8	8									
9:40				CS9	9									
9:45				CS10	10									

Additional Instructions: Billing # 21073416

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. 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) <i>ATB</i>	Date 2-6-23	Time 2:00	Received by: (Signature) <i>Nichelle Curzels</i>	Date 2-6-23	Time 1400	Lab Use Only
Relinquished by: (Signature) <i>Nichelle Curzels</i>	Date 2-6-23	Time 1615	Received by: (Signature) <i>Lorenzo Lei</i>	Date 2-6-23	Time 1700	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <i>Lorenzo Lei</i>	Date 2-6-23	Time 2300	Received by: (Signature) <i>Caithlin Chute</i>	Date 2/7/23	Time 8:15	T1 _____ T2 _____ T3 _____
Sample Matrix: <input checked="" type="checkbox"/> - Soil, <input type="checkbox"/> - Solid, <input type="checkbox"/> - Sludge, <input type="checkbox"/> - Aqueous, <input type="checkbox"/> - Other _____						AVG Temp °C 4
Container Type: <input checked="" type="checkbox"/> - glass, <input type="checkbox"/> - poly/plastic, <input type="checkbox"/> - amber glass, <input type="checkbox"/> - 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.



Client: Pima Environmental Services Project: <u>Spica 25 Fed SH</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>		Lab Use Only Lab WO# <u>E302026</u> Job Number <u>01058-0007</u>		TAT 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input type="checkbox"/>			EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
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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
9:50	2/3/23	S	1	CS11	11							X		
9:55				CS12	12									
10:00				CS13	13									
10:05				CS14	14									
10:10				CS15	15									
10:15				CS16	16									
10:20				CSW1	17									
10:25				CSW2	18									
10:30				CSW3	19									
10:35				CSW4	20									

Additional Instructions: Billing #: 21073416

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: Adriana Benavidez

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>AB</u>	Date <u>2-6-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cuyach</u>	Date <u>2-6-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Cuyach</u>	Date <u>2-6-23</u>	Time <u>1615</u>	Received by: (Signature) <u>Lorenzo Lei</u>	Date <u>2-6-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Lorenzo Lei</u>	Date <u>2-6-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Carla Cht</u>	Date <u>2/7/23</u>	Time <u>8:15</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: 2/7/2023 8:34:45AM

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:	02/07/23 08:15	Work Order ID:	E302026
Phone:	(575) 631-6977	Date Logged In:	02/06/23 13:47	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/07/23 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

Carrier: Courier

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

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

Comments/Resolution

Project Spica 25 Fed 3H has been separated into 2 reports due to sample volume. Workorders are as follows: E302026 & E302027.

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: Spica 25 Fed 3H

Work Order: E302027

Job Number: 01058-0007

Received: 2/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/23

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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.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/8/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Spica 25 Fed 3H
Workorder: E302027
Date Received: 2/7/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/7/2023 8:15:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CSW5	6
CSW6	7
CSW7	8
CSW8	9
CSW9	10
CSW10	11
CSW11	12
CSW12	13
CSW13	14
CSW14	15
CSW15	16
CSW16	17
CSW17	18
CSW18	19
CSW19	20
CSW20	21
CSW21	22
CSW22	23
CSW23	24
CSW24	25

Table of Contents (continued)

CSW25	26
CSW26	27
CSW27	28
CSW28	29
CSW29	30
CSW30	31
CSW31	32
CSW32	33
QC Summary Data	34
QC - Volatile Organic Compounds by EPA 8260B	34
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
PO Box 247
Plains TX, 79355-0247

Project Name: Spica 25 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
02/08/23 15:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW5	E302027-01A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW6	E302027-02A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW7	E302027-03A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW8	E302027-04A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW9	E302027-05A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW10	E302027-06A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW11	E302027-07A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW12	E302027-08A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW13	E302027-09A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW14	E302027-10A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW15	E302027-11A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW16	E302027-12A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW17	E302027-13A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW18	E302027-14A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW19	E302027-15A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW20	E302027-16A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW21	E302027-17A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW22	E302027-18A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW23	E302027-19A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW24	E302027-20A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW25	E302027-21A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW26	E302027-22A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW27	E302027-23A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW28	E302027-24A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW29	E302027-25A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW30	E302027-26A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW31	E302027-27A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.
CSW32	E302027-28A	Soil	02/03/23	02/07/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW5

E302027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23
Toluene	ND	0.0250	1	02/06/23	02/07/23
o-Xylene	ND	0.0250	1	02/06/23	02/07/23
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23

<i>Surrogate: Bromofluorobenzene</i>	98.0 %	70-130		02/06/23	02/07/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		02/06/23	02/07/23
<i>Surrogate: Toluene-d8</i>	91.5 %	70-130		02/06/23	02/07/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23
<i>Surrogate: Bromofluorobenzene</i>	98.0 %	70-130		02/06/23	02/07/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		02/06/23	02/07/23
<i>Surrogate: Toluene-d8</i>	91.5 %	70-130		02/06/23	02/07/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23
<i>Surrogate: n-Nonane</i>	82.1 %	50-200		02/07/23	02/07/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW6

E302027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		91.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		91.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		84.8 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW7

E302027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.4 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.4 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	82.0	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		84.3 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW8

E302027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.1 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.1 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		83.4 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW9

E302027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		85.9 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW10

E302027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		84.9 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW11
E302027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		91.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		91.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW12

E302027-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		99.2 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW13

E302027-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		98.3 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW14

E302027-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		104 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW15

E302027-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		92.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		92.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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**CSW16
E302027-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW17

E302027-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		106 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW18

E302027-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.7 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW19

E302027-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		90.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW20

E302027-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.9 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.9 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW21

E302027-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.4 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.4 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW22

E302027-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.1 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.1 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW23

E302027-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.2 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		98.8 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW24

E302027-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306011
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.5 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306021
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		99.8 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306026
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW25

E302027-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW26

E302027-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW27

E302027-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW28

E302027-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW29

E302027-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW30

E302027-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW31

E302027-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		89.0 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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CSW32

E302027-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Benzene	ND	0.0250	1	02/06/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/06/23	02/07/23	
Toluene	ND	0.0250	1	02/06/23	02/07/23	
o-Xylene	ND	0.0250	1	02/06/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/06/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		88.3 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2306010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/06/23	02/07/23	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	02/06/23	02/07/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	02/06/23	02/07/23	
<i>Surrogate: Toluene-d8</i>		88.3 %	70-130	02/06/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/07/23	02/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/07/23	02/07/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	02/07/23	02/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306024
Chloride	ND	20.0	1	02/07/23	02/07/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Volatile Organic Compounds by EPA 8260B

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 (2306010-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

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	0.462		0.500		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS (2306010-BS1)

Prepared: 02/06/23 Analyzed: 02/06/23

Benzene	2.49	0.0250	2.50		99.5	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	4.98	0.0500	5.00		99.6	70-130			
Total Xylenes	7.58	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

LCS Dup (2306010-BSD1)

Prepared: 02/06/23 Analyzed: 02/06/23

Benzene	2.66	0.0250	2.50		106	70-130	6.55	23	
Ethylbenzene	2.66	0.0250	2.50		106	70-130	8.35	27	
Toluene	2.71	0.0250	2.50		108	70-130	7.73	24	
o-Xylene	2.82	0.0250	2.50		113	70-130	8.23	27	
p,m-Xylene	5.41	0.0500	5.00		108	70-130	8.29	27	
Total Xylenes	8.23	0.0250	7.50		110	70-130	8.27	27	
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Volatile Organic Compounds by EPA 8260B

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 (2306011-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

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	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.5	70-130			

LCS (2306011-BS1)

Prepared: 02/06/23 Analyzed: 02/06/23

Benzene	3.11	0.0250	2.50		124	70-130			
Ethylbenzene	2.74	0.0250	2.50		110	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.88	0.0250	2.50		115	70-130			
p,m-Xylene	5.67	0.0500	5.00		113	70-130			
Total Xylenes	8.55	0.0250	7.50		114	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.3	70-130			

LCS Dup (2306011-BSD1)

Prepared: 02/06/23 Analyzed: 02/06/23

Benzene	3.10	0.0250	2.50		124	70-130	0.338	23	
Ethylbenzene	2.74	0.0250	2.50		110	70-130	0.0364	27	
Toluene	2.70	0.0250	2.50		108	70-130	0.555	24	
o-Xylene	2.89	0.0250	2.50		115	70-130	0.260	27	
p,m-Xylene	5.67	0.0500	5.00		113	70-130	0.0265	27	
Total Xylenes	8.56	0.0250	7.50		114	70-130	0.105	27	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.453		0.500		90.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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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 (2306010-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.462		0.500		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS (2306010-BS2)

Prepared: 02/06/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	62.5	20.0	50.0		125	70-130			
Surrogate: Bromofluorobenzene	0.458		0.500		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS Dup (2306010-BSD2)

Prepared: 02/06/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	62.1	20.0	50.0		124	70-130	0.647	20	
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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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 (2306011-BLK1)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.5	70-130			

LCS (2306011-BS2)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.0	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

LCS Dup (2306011-BSD2)

Prepared: 02/06/23 Analyzed: 02/06/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.1	70-130	2.23	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.453		0.500		90.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

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
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Blank (2306021-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS (2306021-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	244	25.0	250		97.4	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

Matrix Spike (2306021-MS1)

Source: E302027-10

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2306021-MSD1)

Source: E302027-10

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.45	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

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
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Blank (2306022-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2306022-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	219	25.0	250		87.8	38-132			
Surrogate: n-Nonane	47.0		50.0		94.1	50-200			

Matrix Spike (2306022-MS1)

Source: E302025-07

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

Matrix Spike Dup (2306022-MSD1)

Source: E302025-07

Prepared: 02/07/23 Analyzed: 02/07/23

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	2.98	20	
Surrogate: n-Nonane	45.6		50.0		91.2	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Anions by EPA 300.0/9056A

Analyst: BA

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 (2306024-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	ND	20.0							
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LCS (2306024-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	244	20.0	250		97.8	90-110			
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Matrix Spike (2306024-MS1)

Source: E302025-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	387	200	250	ND	155	80-120			M6
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Matrix Spike Dup (2306024-MSD1)

Source: E302025-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	391	200	250	ND	157	80-120	1.18	20	M6
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QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/8/2023 3:04:10PM
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Anions by EPA 300.0/9056A

Analyst: BA

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 (2306026-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	ND	20.0							
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LCS (2306026-BS1)

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	259	20.0	250		103	90-110			
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Matrix Spike (2306026-MS1)

Source: E302027-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	259	20.0	250	ND	104	80-120			
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Matrix Spike Dup (2306026-MSD1)

Source: E302027-01

Prepared: 02/07/23 Analyzed: 02/07/23

Chloride	267	20.0	250	ND	107	80-120	3.10	20	
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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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/08/23 15:04

M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.

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.



Client: Pima Environmental Services Project: <u>SPICA 25 Feb 24</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>		Lab Use Only Lab WO# <u>E302027</u> Job Number <u>01058-0007</u> Analysis and Method		TAT 1D 2D 3D Standard			EPA Program CWA SDWA RCRA	
						State NM CO UT AZ TX				

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 NMI	BGDOC TX	Remarks
10:40	2/3/23	S	1	CSW5	1							X		
10:45				CSW6	2									
10:50				CSW7	3									
10:55				CSW8	4									
11:00				CSW9	5									
11:05				CSW10	6									
11:10				CSW11	7									
11:15				CSW12	8									
11:20				CSW13	9									
11:25				CSW14	10									

Additional Instructions: Billing # 21073416

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: Audriana Benavidez

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>[Signature]</u>	Date <u>2-6-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cuyk</u>	Date <u>2-6-23</u>	Time <u>1:400</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1: _____ T2: _____ T3: _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Cuyk</u>	Date <u>2-6-23</u>	Time <u>11:15</u>	Received by: (Signature) <u>Lorenzo Pri</u>	Date <u>2-6-23</u>	Time <u>1:700</u>	
Relinquished by: (Signature) <u>Lorenzo Pri</u>	Date <u>2-6-23</u>	Time <u>2:300</u>	Received by: (Signature) <u>Caitlin Ch...</u>	Date <u>2/7/23</u>	Time <u>8:15</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.



Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: Spica 25 Fed 3H		Attention: Devon		Lab WO# E302027		Job Number 01058-0007		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:											
Phone: 580-748-1613		Email:											
Email: tom@pimaoil.com		Pima Project # 1-15											
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 NIM	BGDOC TX	Remarks
11:30	2/3/23	S	1	CSW15	11							X		
11:35				CSW16	12									
11:40				CSW17	13									
11:45				CSW18	14									
11:50				CSW19	15									
11:55				CSW20	16									
12:00				CSW21	17									
12:05				CSW22	18									
12:10				CSW23	19									
12:30				CSW24	20									

Additional Instructions: Billing # 21073416

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: Audriana Benavides

Relinquished by: (Signature) <u>AS</u>	Date <u>2-6-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cuyals</u>	Date <u>2-6-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Cuyals</u>	Date <u>2-6-23</u>	Time <u>11:15</u>	Received by: (Signature) <u>Lorena Lei</u>	Date <u>2-6-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Lorena Lei</u>	Date <u>2-6-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Caitlin Chute</u>	Date <u>2/7/23</u>	Time <u>8:15</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.



Client: <u>Pima Environmental Services</u> Project: <u>Spica 25 Fed 3H</u> Project Manager: <u>Tom Bynum</u> Address: <u>56 14 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:	Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>	Lab Use Only Lab WO# <u>E302027</u> Job Number <u>01058-0007</u> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDQC NIM BGDQC TX	TAT 1D 2D 3D Standard X	EPA Program CWA SDWA RCRA State NM CO UT AZ TX X
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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	BGDQC NIM	BGDQC TX	Remarks
12:35	2/3/23	S	1	CSW 25	21							X		
12:40				CSW 26	22									
12:45				CSW 27	23									
12:50				CSW 28	24									
12:55				CSW 29	25									
1:00				CSW 30	26									
1:05				CSW 31	27									
1:10				CSW 32	28									

Additional Instructions: Billing # 21073416

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: Audriana Bernandiz

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>AB</u>	Date <u>2-6-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cruz</u>	Date <u>2-6-23</u>	Time <u>1400</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Cruz</u>	Date <u>2-6-23</u>	Time <u>1615</u>	Received by: (Signature) <u>Lorenzo Len</u>	Date <u>2-6-23</u>	Time <u>1700</u>	Received on ice: <u>Y/N</u>
Relinquished by: (Signature) <u>Lorenzo Len</u>	Date <u>2-6-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Carla Cht</u>	Date <u>2/7/23</u>	Time <u>8:15</u>	T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sa - 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: 2/7/2023 8:37:19AM

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:	02/07/23 08:15	Work Order ID:	E302027
Phone:	(575) 631-6977	Date Logged In:	02/06/23 13:50	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/07/23 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

Carrier: Courier

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

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

Comments/Resolution

Project Spica 25 Fed 3H has been separated into 2 reports due to sample volume. Workorders are as follows: E302026 & E302027.

Client Instruction

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

Date



envirotech Inc.

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

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 189890

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 189890
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2225823991 SPICA 25 FEDERAL #003H, thank you. This closure is approved.	6/27/2023