

SUBSEQUENT CLOSURE REPORT

REPORTABLE RELEASE

Spur Energy Partners
HT 18 Federal #1
Incident ID: NAPP2103541864
API# 30-025-39974
Lea County, NM

Prepared by:



Paragon Environmental LLC
1601 N. TURNER ST. STE.500
Hobbs, NM 88240
575-964-7814

GENERAL DETAILS

This report was prepared by Paragon Environmental LLC (Paragon) in response to the release for Spur Energy Partners (Spur) at the **HT 18 Federal #1 (HT 18)**.

API#: 30-025-39974

Site Coordinates: Latitude: 32.8295326 Longitude: -103.8126678

Unit UL M, Section 18, Township 17S, Range 32E

Incident ID: NAPP2103541864

REGULATORY FRAMEWORK

Depth to Groundwater: According to the New Mexico State of Engineers Office, the nearest water data was greater than 1/2 of a mile away, and or data is greater than 25 years old. Paragon recommended drilling a borehole to determine true DTW. Atkins Drilling was subcontracted and drilled a borehole proving the depth of groundwater is greater than 100 feet BGS. See Appendix A for details and the report filed with the State Office.

RELEASE DETAILS

This incident occurred due to the failure of the threads on a 2-inch steel line. This resulted in the release of 5 bbls of mixed fluids. A vacuum truck was dispatched and recovered 3.5 bbls of fluids.

Date of Spill: 01/17/2020

Type of Spill: ☒ Crude Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Comments: Reportable release.

Released: 2 bbls of Crude Oil & 3 bbls of Produced Water

Recovered: 3.5 bbls of Total Fluids

REMEDIATION ACTIVITIES

Energy Staffing LLC initially assessed this project. They based their assessment and remediation criteria on the strictest closer criteria due to a lack of groundwater data. They obtained soil samples, and then the project was given to Pima Environmental Services. They also based their remediation activities on the strictest closure criteria. After they cleaned the contamination and submitted a closure report, the report was denied, stating that S4 and S10 were not vertically delineated. We determined that because we had new water data, we could move to close this incident.

Paragon was given this project to aid in bringing it to closure. After carefully reviewing the project, we determined to drill a borehole at the BC Federal Battery that was centrally located to provide further coverage for data.

On October 10, 2022, Paragon and Atkins returned to the site with equipment and personnel and began drilling activities. We drilled the hole to a total depth of 104 feet. They were able to determine that the static water level was 102.8 feet.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, NAPP2103541864, be closed. Spur has complied with the applicable closure requirements. If you have any questions or need additional information, please contact Chris Jones at 575-964-7814 or chris@paragonenvironmental.net.

Respectfully,



Chris Jones
Environmental Professional
Paragon Environmental LLC

Attachments

Figures:

- 1- Site Map

Appendices:

- Appendix A- New Water Data
- Appendix B- C141
- Appendix C- Pimas Closure Report






Figures:

1-Site Map

Spur Energy Partners

HT 18 Federal #1
Lea County, NM
Site Map

Legend

-  Borehole Drilled- 0.48 Mile
-  HT 18 Fed #1 32.8295326, -103.8126678
-  RA-13234-POD1

HT 18 Fed #1 32.8295326, -103.8126678

RA-13234-POD1



3000 ft



Appendix A
Referenced Water Data:

New Water Data

New Mexico State of Engineers
Office



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

11/4/2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record RA-13234Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, RA-13234 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). RA-13234		
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 919 Milam St Ste 2475				CITY Houston	STATE TX	ZIP 77002
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 49	SECONDS 22.88	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE 103	48	34.24			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SE NW Sec. 19 T17S R23E, NMPM							


2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/20/2022	DRILLING ENDED 10/20/2022	DEPTH OF COMPLETED WELL (FT) 104	BORE HOLE DEPTH (FT) ±104	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 102.8	DATE STATIC MEASURED 11/1/2022		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0	54	±6.5	Hollow Stem Auger-Soil Boring	--	--	--	--	
54	104	±3.25	Air Rotary- Soil Boring	--	--	--	--	

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	34	34	Sand, fine grained with semi-consolidated caliche, Tan/ white	Y ✓ N	
	34	54	20	Sand, fine-grained, poorly graded, Reddish Brown	Y ✓ N	
	54	104	50	Sandstone, fine-grained, poorly graded, semi-consolidated, Tannish Brown	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
	MISCELLANEOUS INFORMATION: Pulled well material. Plugged boring using Neat Cement Type I/II slurry from total depth to surface.					
	<p style="text-align: right;">DSE DIT NOV 4 2022 PM 3:51</p> PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>					

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RA-13234 POD-1

Well owner: Spur Energy Partners LLC

Phone No.: _____

Mailing address: 919 Milam St Ste 2475

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge
- 4) Date well plugging began: 11/1/2022 Date well plugging concluded: 11/1/2022
- 5) GPS Well Location: Latitude: 32 deg, 49 min, 22.88 sec
Longitude: 103 deg, 48 min, 34.24 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 104 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: 102.8 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 9/8/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

DSE OTT NOU 4 2022 PM3:51

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

11/1/2022

Date _____

Released to Imaging: 1/25/2023 3:27:23 PM

RA-13234-WR-20 Well Record and Log-forsign

Final Audit Report

2022-11-01

Created:	2022-11-01
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAXQCH1sGeyJxiE5NDxSXxA-nZX3Wz92ck

"RA-13234-WR-20 Well Record and Log-forsign" History



Document created by Lucas Middleton (lucas@atkinseng.com)

2022-11-01 - 8:19:33 PM GMT- IP address: 64.17.71.25



Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2022-11-01 - 8:26:48 PM GMT



Email viewed by Jack Atkins (jack@atkinseng.com)

2022-11-01 - 10:18:33 PM GMT- IP address: 64.90.153.232



Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-11-01 - 10:21:05 PM GMT - Time Source: server- IP address: 64.90.153.232



Agreement completed.

2022-11-01 - 10:21:05 PM GMT

USE DTI NOV 4 2022 PM 3:51



Adobe Acrobat Sign



Appendix B:

C-141

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party SPUR ENERGY PARTNERS	OGRID 328947
Contact Name BRAIDY MOULDER	Contact Telephone 713-264-2517
Contact email BMOULDER@SPUREPLLC.COM	Incident # (assigned by OCD)
Contact mailing address 919 MILAM STREET SUITE 2475 HOUSTON, TEXAS 77002	

Location of Release Source

Latitude **32.8295326**Longitude **-103.8126678**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name HT 18 FEDERAL #1	Site Type PRODUCTION
Date Release Discovered 1/17/2020	API# (if applicable) 30-025-39974

Unit Letter	Section	Township	Range	County
M	18	17S	32E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2BBLS	Volume Recovered (bbls) 1.5BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3BBLS	Volume Recovered (bbls) 2BBLS
	Is the concentration of dissolved chloride 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

THREADS ON 2" STEEL LINE WASHED OUT CAUSING THE 5BBL RELEASE. ALL FLUIDS REMAINED ON THE PRODUCTION PAD.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

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

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

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

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

Printed Name: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY

Signature: Natalie Gladden Date: 2/4/20

email: natalie@energystaffingllc.com

Telephone: 575-390-6397

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Form C-141

Incident ID	NAPP2103541864
District RP	
Facility ID	
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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?	102 (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

State of New Mexico
Oil Conservation Division

Page 2

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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.

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: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 01/03/2023

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2103541864
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: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 01/03/2023

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon

Date: 01/03/2023

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: Jennifer Nobui

Date: 01/25/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



Appendix C:

Pima's Closure Report



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

March 16th, 2022

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

Bureau of Land Management
 620 East Green Street
 Carlsbad, NM 88220

Re: Site Assessment, Remediation, and Closure Report
HT 18 Federal #001
API No. 30-025-39974
GPS: Latitude 32.8295326 Longitude -103.8126678
UL "M" Sec. 18, T17S, R32E
Lea County, NM
NMOCD Ref. No. NAPP2103541864

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners, LLC. (Spur) to perform a spill assessment, remediation, and submit this closure report for a crude oil/produced water mixed release that occurred at the HT 18 Federal #001 (HT). The initial C-141 was submitted on February 4th, 2020 (Appendix C). This incident was assigned Incident ID NAPP2103541864, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The HT is located approximately four (4) miles southwest of Maljamar, NM. This spill site is in Unit M, Section 18, Township 17S, Range 32E, Latitude 32.8295326 Longitude -103.8126678, 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. Interlayered eolian sands and piedmont-slope 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 Kermit Palomas fine sands and Kermit soils and Dune land, both of which have 0 to 12 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are excessively drained. There is a low potential for karst geology to be present around the HT (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 81 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 362 feet BGS. The closest waterway is a playa located approximately 20.6 miles to the west 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

NAPP2103541864: On January 17th, 2020, Threads on a 2" steel line washed out causing the 5 BBLs Release. All fluid remained on the production pad. The total volume of fluid released was calculated to be approximately 2 barrels (bbls) of crude oil and 3 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 3.5 bbls of total fluid.

Site Assessment and Soil Sampling Results

On February 9th, 2022, Pima Environmental mobilized personnel to the site to assess the area. Horizontal delineation had already been completed by Energy Staffing, LLC (Energy Staffing map is attached as Figure 5). Laboratory results of these sampling events can be found in the following data tables. A Site map can be found in Figure 4.

Horizontal Delineation Results by Energy Staffing, LLC.

Company Name:		SPUR ENERGY			Location Name:		HT 18 FEDERAL #1			Release Date:
										1/17/2021
SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil
SW1	SURF	640	TPH							
	5'	140		ND	ND	ND	ND	ND	133	
SW2	SURF	720	TPH							
	4'	120		ND	ND	ND	ND	ND	107	
SW3	SURF	640	TPH							
	3'	200		ND	ND	ND	ND	ND	179	
SW4	SURF	560	TPH							
	2'	100		ND	ND	ND	51.5	51.5	74.3	
SW5	SURF	640	TPH							
	5'	200		ND	ND	ND	ND	ND	192	
SW6	SURF	640	TPH							
	6'	100		ND	ND	ND	ND	ND	98.9	
SW7	SURF	560	TPH							
	2'	100		ND	ND	ND	ND	ND	95.4	
SW8	SURF	640	TPH							
	2'	200		ND	ND	ND	61.2	61.2	164	
SW9	SURF	640	TPH							
	2'	20		ND	ND	ND	ND	ND	ND	
SW10	SURF	640	TPH							
	2'	180		ND	ND	ND	ND	ND	149	
SW11	SURF	800	TPH							
	2'	40		ND	ND	ND	ND	ND	28.2	
SW12	SURF	800	TPH							
	6'	320		ND	ND	ND	ND	ND	275	
SW13	SURF	640	TPH							
	2'	160		ND	ND	ND	ND	ND	129	
SW14	SURF	560	TPH							
	2'	20		ND	ND	ND	ND	ND	ND	
SW15	SURF	640	TPH							
	3'	80		ND	ND	ND	ND	ND	52.5	
SW16	SURF	2000	TPH							
	3'	60		ND	ND	ND	ND	ND	59.9	

ND – Analyte Not Detected

2-9-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to Groundwater <50'								
Spur Energy - HT 18 Federal #001								
Date 2/9/22		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
S1	0-6"	ND	ND	ND	ND	ND	0	4680
	2'	ND	ND	ND	ND	ND	0	527
S2	0-6"	ND	ND	ND	346	339	685	1210
	2'	ND	ND	ND	ND	ND	0	129
S3	0-6"	ND	ND	ND	146	357	503	9310
	2'	ND	ND	ND	ND	ND	0	343
S4	0-6"	ND	ND	ND	34.6	ND	34.6	6260
	2'	ND	ND	ND	ND	ND	0	898
	4'	ND	ND	ND	ND	ND	0	1140
S5	0-6"	ND	ND	ND	ND	ND	0	668
S6	0-6"	ND	ND	ND	690	841	1531	967
	2'	ND	ND	ND	ND	ND	0	379
S7	0-6"	ND	ND	ND	ND	ND	0	1300
	2'	ND	ND	ND	ND	56.5	56.5	1370
	4'	ND	ND	ND	ND	ND	0	256
S8	0-6"	ND	ND	ND	3650	109	3759	2370
	2'	ND	ND	ND	ND	ND	0	154
S9	0-6"	ND	ND	ND	35.2	97.1	132.3	ND
S10	0-6"	ND	ND	ND	ND	ND	0	8110
	2'	ND	ND	ND	ND	ND	0	2840
	4'	ND	ND	ND	ND	ND	0	3140
S11	0-6"	ND	ND	ND	ND	ND	0	16100
	2'	ND	ND	ND	ND	ND	0	111
S12	0-6"	ND	ND	ND	ND	ND	0	125
S13	0-6"	ND	ND	ND	ND	ND	0	22900
	2'	ND	ND	ND	ND	ND	0	244
S14	0-6"	ND	ND	ND	ND	ND	0	430
S15	0-6"	ND	ND	ND	35.7	52.4	88.1	394

ND- Analyte Not Detected

Remediation Activities

On February 21st, 2022, Pima mobilized personnel and equipment to conduct remedial activities and complete vertical delineation of S4, S5, and S10. We excavated the area to various depths collecting 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 25th, 2022, after sending a 48-hour notification, Pima returned to the site to collect confirmation samples of the treated area. The results of this sampling event can be found in the following data table. Once all sample points were confirmed, backfill of the excavation began.

2-25-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to Groundwater <50'								
Spur Energy - HT 18 Federal #001								
Date 2/25/22		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
SW-1	2'	ND	ND	ND	ND	ND	0	ND
SW-2	2'	ND	ND	ND	ND	ND	0	ND
SW-3	4'	ND	ND	ND	ND	ND	0	164
SW-4	2'	ND	ND	ND	ND	ND	0	ND
SW-5	2'	ND	ND	ND	ND	ND	0	ND
SW-6	4'	ND	ND	ND	ND	ND	0	ND
SW-7	2'	ND	ND	ND	ND	ND	0	ND
SW-8	2'	ND	ND	ND	ND	ND	0	ND
SW-9	2'	ND	ND	ND	ND	ND	0	ND
SW-10	4'	ND	ND	ND	ND	ND	0	ND
SW-11	2'	ND	ND	ND	ND	ND	0	ND
SW-12	2'	ND	ND	ND	ND	ND	0	ND
SW-13	2'	ND	ND	ND	ND	ND	0	ND
SW-14	2'	ND	ND	ND	ND	ND	0	ND
SW-15	2'	ND	ND	ND	ND	ND	0	ND
CS-1	2'	ND	ND	ND	ND	ND	0	119
CS-2	2'	ND	ND	ND	ND	ND	0	230
CS-3	2'	ND	ND	ND	ND	ND	0	794
CS-4	4'	ND	ND	ND	ND	ND	0	ND
CS-5	2'	ND	ND	ND	ND	ND	0	ND
CS-6	2'	ND	ND	ND	ND	ND	0	91.9
CS-7	2'	ND	ND	ND	ND	ND	0	249
CS-8	2'	ND	ND	ND	ND	ND	0	253
CS-9	2'	ND	ND	ND	ND	ND	0	41
CS-10	2'	ND	ND	ND	ND	ND	0	ND
CS-11	2'	ND	ND	ND	ND	ND	0	175
CS-12	4'	ND	ND	ND	ND	ND	0	172
CS-13	2'	ND	ND	ND	ND	ND	0	91.4
CS-14	2'	ND	ND	ND	ND	ND	0	25.9
CS-15	2'	ND	ND	ND	ND	ND	0	46.9
CS-16	2'	ND	ND	ND	ND	ND	0	ND
CS-17	2'	ND	ND	ND	ND	ND	0	38.8
CS-18	2'	ND	ND	ND	ND	ND	0	ND

ND – Analyte Not Detected

On March 9th, 2022, Pima returned to the site to further excavate and confirm the CS-3 contaminated area. Laboratory results of this sampling event can be found in the following data table. Photographic documentation can be found in Appendix D.

3-9-22 Confirmation Soil Sample Result

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - Depth to Groundwater <50'								
Spur Energy - HT 18 Federal #001								
Date: 3/9/2022		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-3	2.5'	ND	ND	ND	ND	ND	0	248

ND – Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The excavation was backfilled with clean like material, machine compacted and contoured to match the surrounding terrain. A Confirmation Sample map can be found in Figure 6.

Closure Request

After careful review, Pima requests that this incident, NAPP2103541864 be closed. Spur 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 Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,

Tom Bynum

Tom Bynum
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topo Map

3-Karst Map

4-Site Map

5-Energy Staffing Map

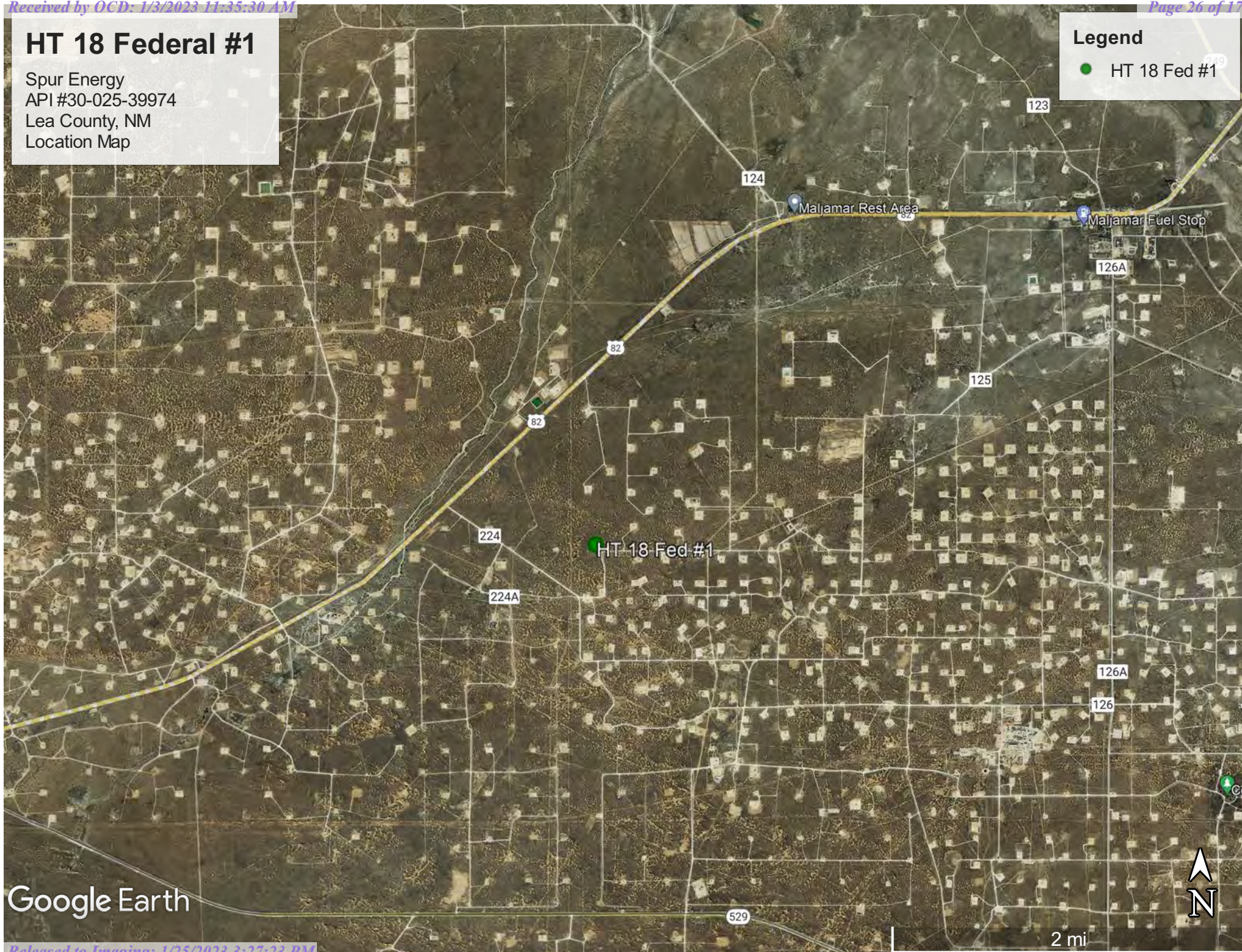
6-Confirmation Sample Map

HT 18 Federal #1

Spur Energy
API #30-025-39974
Lea County, NM
Location Map

Legend

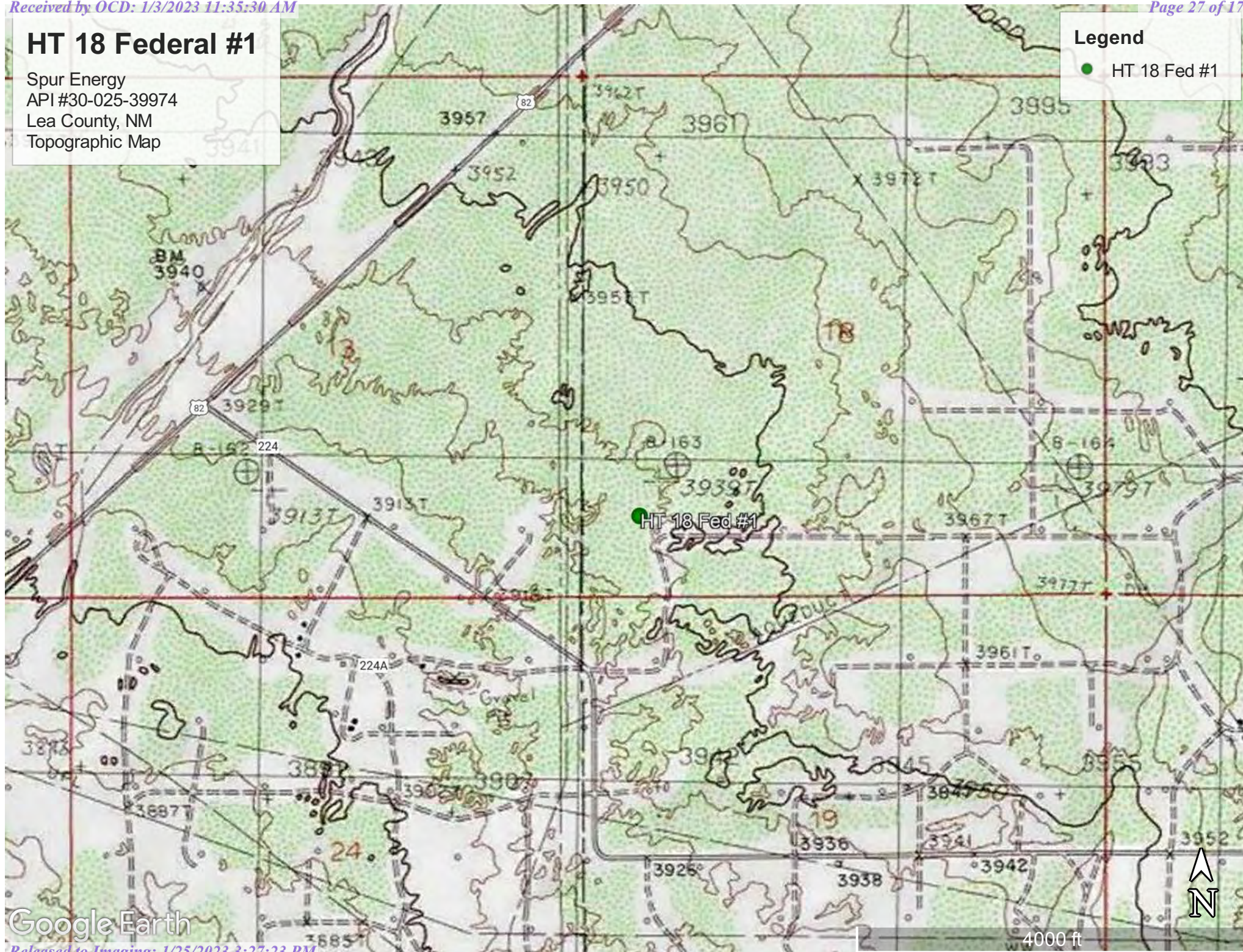
● HT 18 Fed #1



Google Earth

Spur Energy
API #30-025-39974
Lea County, NM
Topographic Map

- HT 18 Fed #1



HT 18 Federal #1

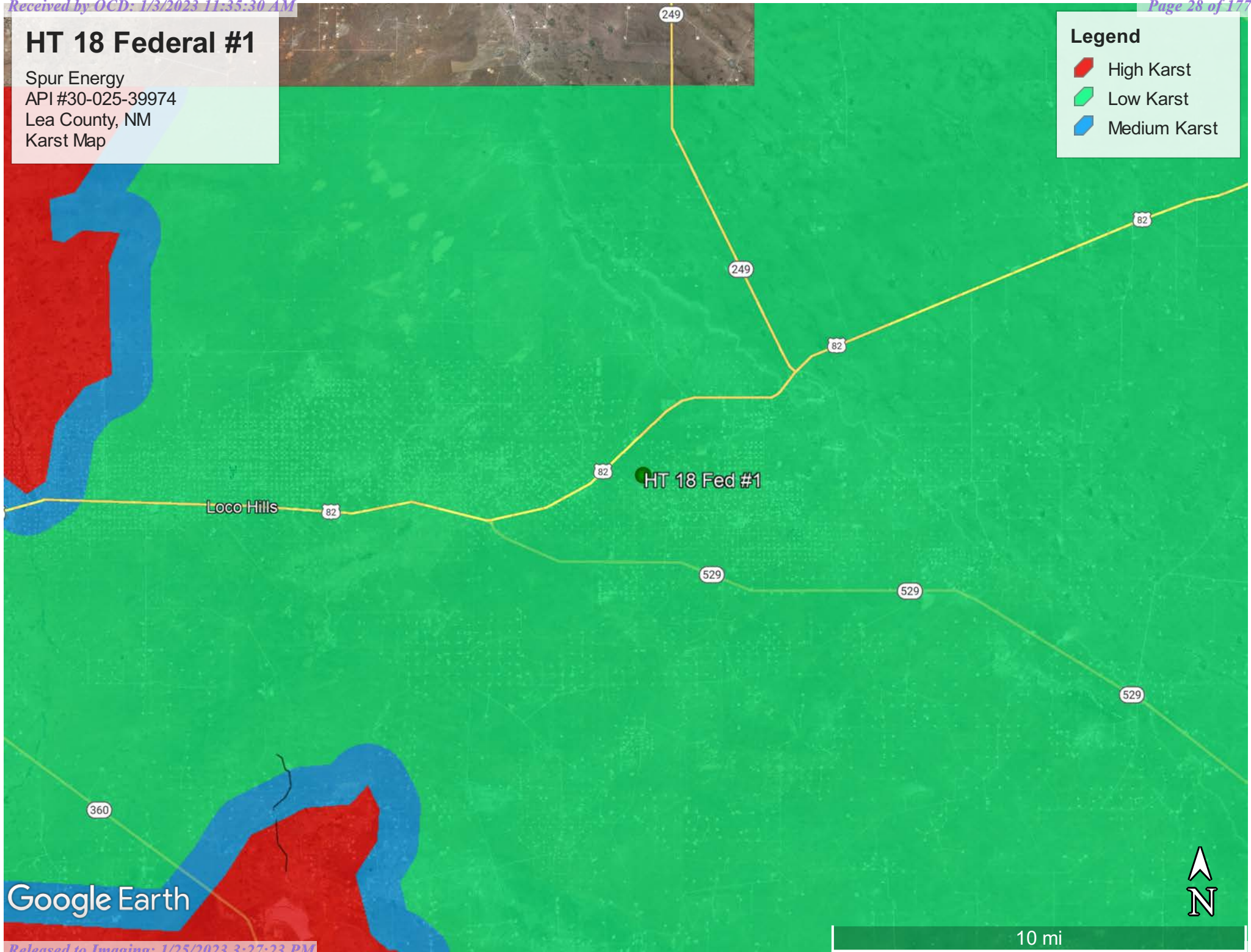
Spur Energy
API #30-025-39974
Lea County, NM
Karst Map

Legend

High Karst

Low Karst

Medium Karst






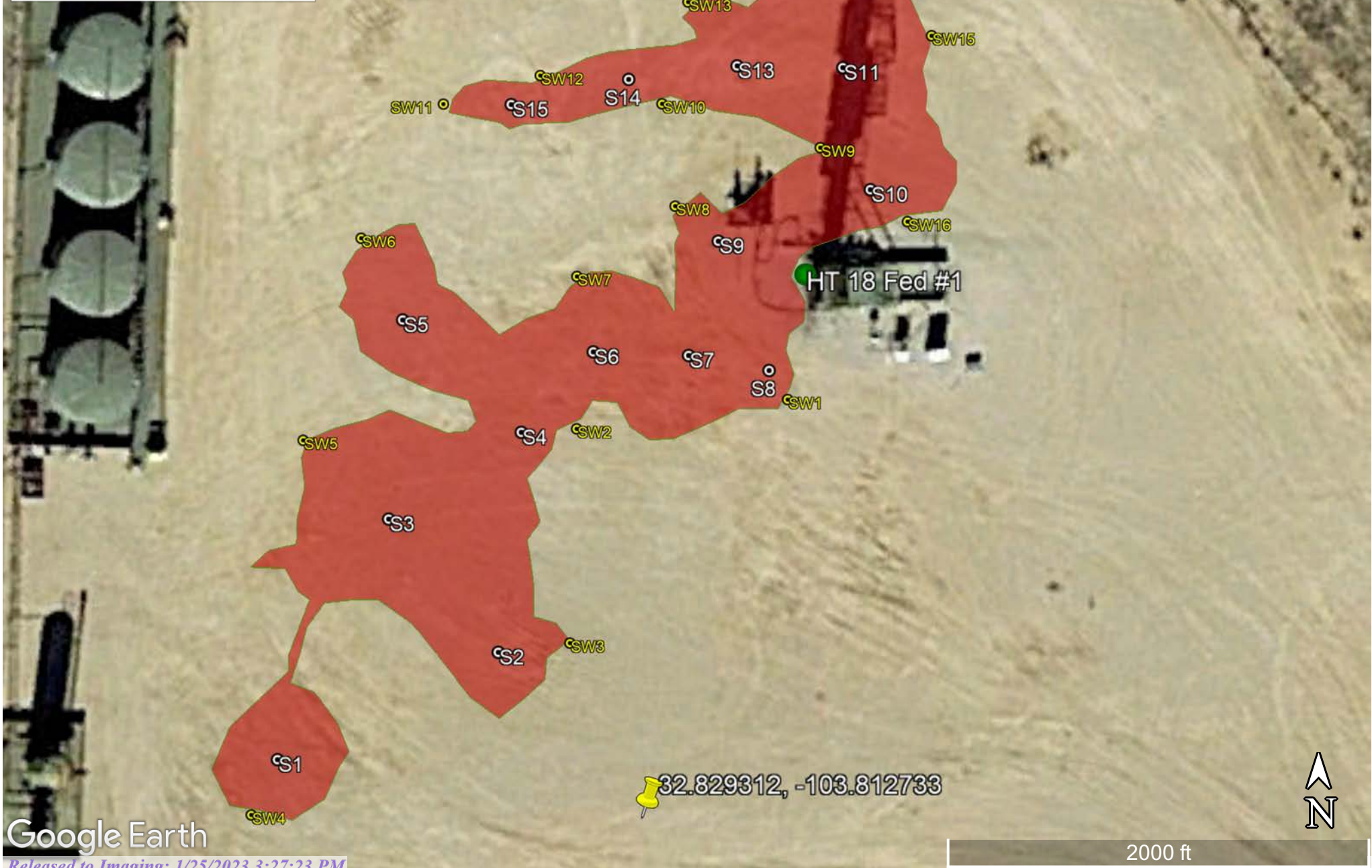
10 mi

H T 18 Federal #1

Spur Energy
API #30-025-39974
Lea County, NM
Site Map

Legend

-  Samples
-  Sidewalls
-  Spill Area-6,597sqft



SPUR ENERGY PARTNERS

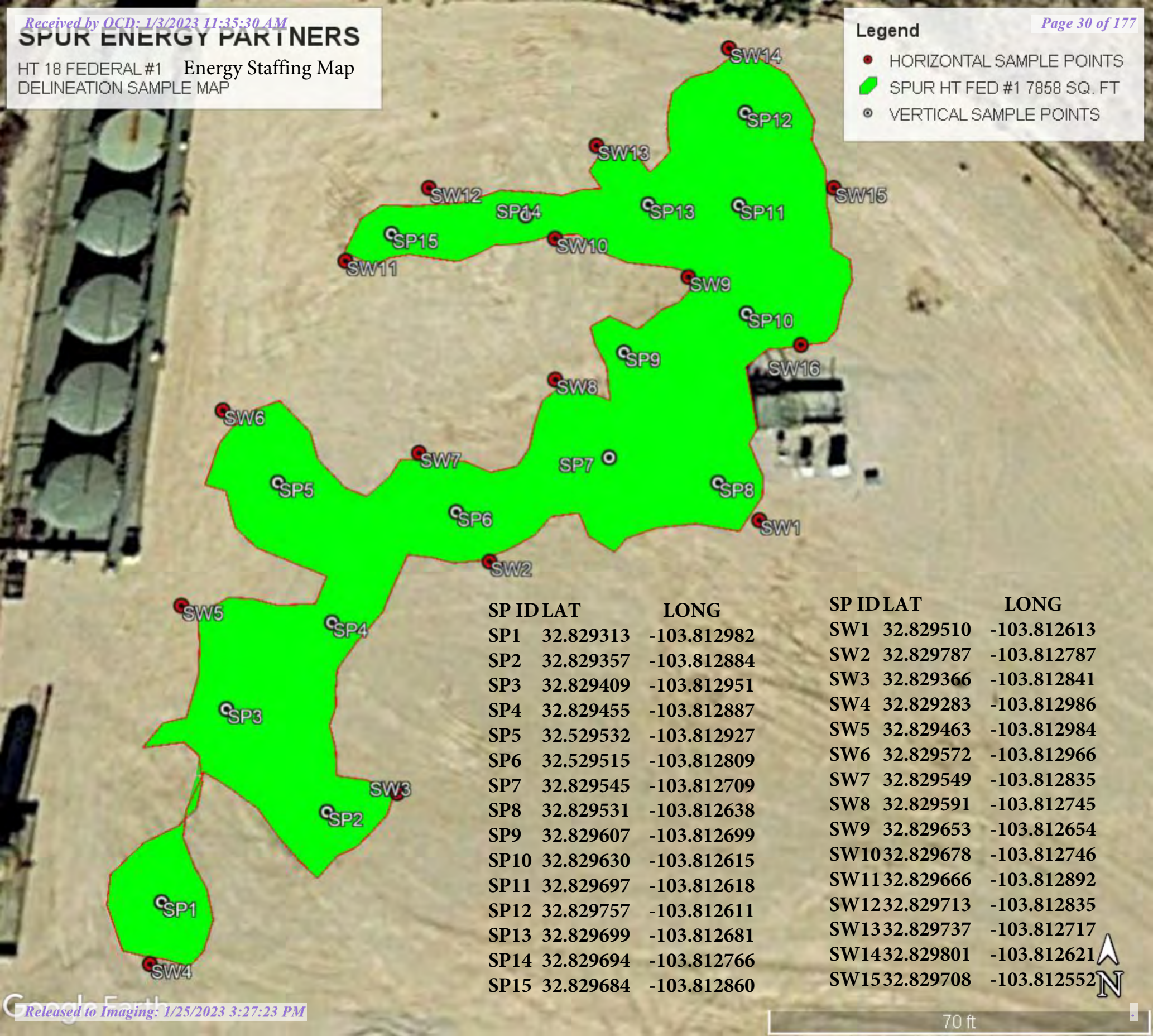
HT 18 FEDERAL #1 Energy Staffing Map
DELINEATION SAMPLE MAP

Legend

HORIZONTAL SAMPLE POINTS

SPUR HT FED #1 7858 SQ. FT

VERTICAL SAMPLE POINTS



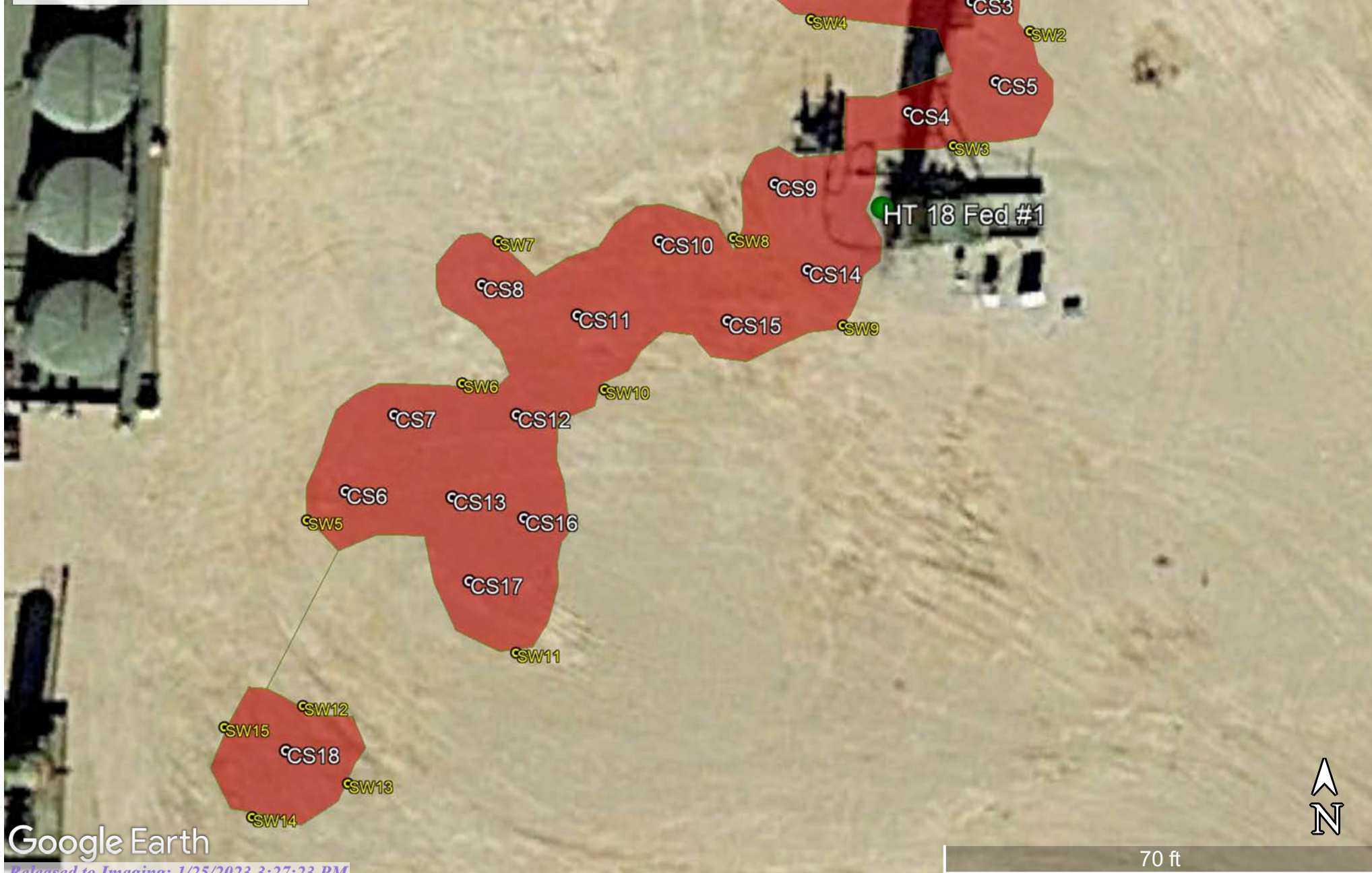
SP ID		LAT	LONG	SP ID		LAT	LONG
SP1	32.829313	-103.812982	SW1	32.829510	-103.812613		
SP2	32.829357	-103.812884	SW2	32.829787	-103.812787		
SP3	32.829409	-103.812951	SW3	32.829366	-103.812841		
SP4	32.829455	-103.812887	SW4	32.829283	-103.812986		
SP5	32.529532	-103.812927	SW5	32.829463	-103.812984		
SP6	32.529515	-103.812809	SW6	32.829572	-103.812966		
SP7	32.829545	-103.812709	SW7	32.829549	-103.812835		
SP8	32.829531	-103.812638	SW8	32.829591	-103.812745		
SP9	32.829607	-103.812699	SW9	32.829653	-103.812654		
SP10	32.829630	-103.812615	SW10	32.829678	-103.812746		
SP11	32.829697	-103.812618	SW11	32.829666	-103.812892		
SP12	32.829757	-103.812611	SW12	32.829713	-103.812835		
SP13	32.829699	-103.812681	SW13	32.829737	-103.812717		
SP14	32.829694	-103.812766	SW14	32.829801	-103.812621		
SP15	32.829684	-103.812860	SW15	32.829708	-103.812552		

HT 18 Federal #1

Spur Energy
API # 30-025-39974
Lea County, NM
Confirmation Sample Map

Legend

- Confirmation Samples
- Excavated Area
- Sidewalls



Google Earth



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 12042 POD1		RA	LE	2	2	1	28	17S	32E	614891	3631181	4177	400		
RA 10175		RA	LE		2	1	28	17S	32E	614814	3631005*	4189	158		
RA 12020 POD1		RA	LE	2	2	1	28	17S	32E	614828	3630954	4226	120	81	39
RA 12522 POD1		RA	LE	3	3	4	21	17S	32E	614941	3631122	4247	100		
RA 12522 POD2		RA	LE	2	2	1	28	17S	32E	614949	3631098	4266	100		
RA 12522 POD3		RA	LE	4	4	3	28	17S	32E	614980	3631093	4296	100		
RA 12521 POD1		RA	LE	3	3	4	21	17S	32E	615127	3631271	4353	105	92	13
RA 12020 POD3		RA	LE	2	1	2	28	17S	32E	615152	3631019	4482	112	83	29
RA 12721 POD1		RA	LE	3	2	3	28	17S	32E	614645	3630141	4534	125		
RA 12721 POD2		RA	LE	1	1	4	28	17S	32E	615055	3630407	4706	124	75	49
RA 12721 POD8		RA	LE	1	2	1	33	17S	32E	614640	3629463	4989	130	108	22

Average Depth to Water: **87 feet**

Minimum Depth: **75 feet**

Maximum Depth: **108 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 611139.43

Northing (Y): 3633018.11

Radius: 5000

*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.

9/23/21 2:48 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 325216103575701

Minimum number of levels = 1

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

USGS 325216103575701 16S.30E.33.42443

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°52'16", Longitude 103°57'57" NAD27

Land-surface elevation 3,729 feet above NAVD88

The depth of the well is 385 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

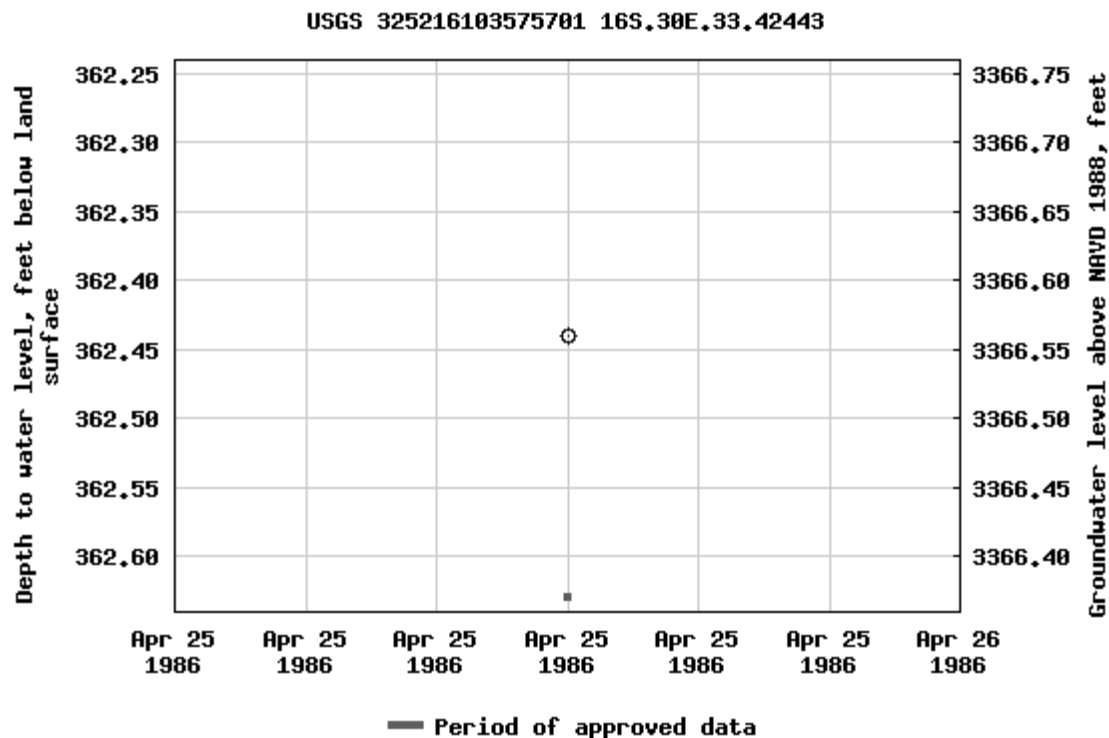
Output formats

[Table of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.
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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: 2021-10-27 16:31:48 EDT

0.7 0.62 nadww02



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USGS 325216103575701 16S.30E.33.42443

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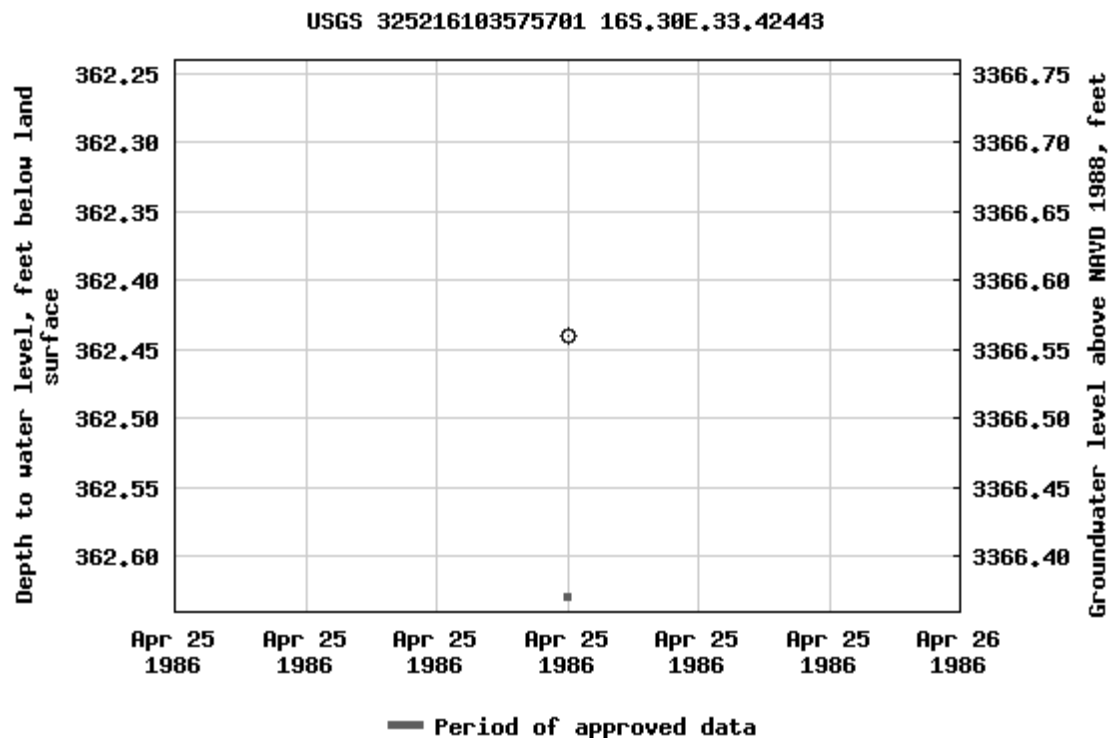
Output formats

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

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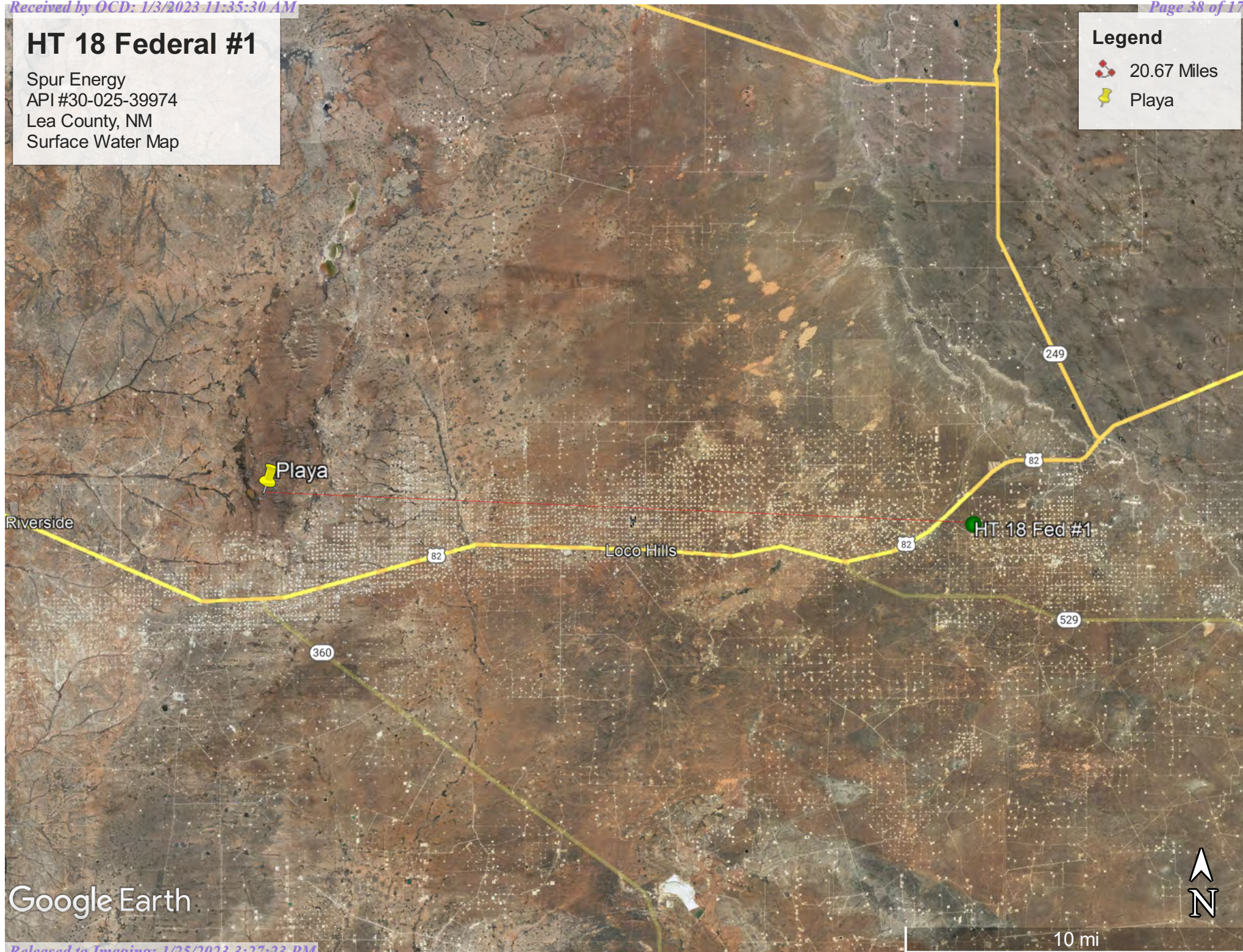
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HT 18 Federal #1

Spur Energy
API #30-025-39974
Lea County, NM
Surface Water Map

Legend

-  20.67 Miles
-  Playa



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent

Palomas and similar soils: 20 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Hydrologic Soil Group: A
Ecological site: R042XC005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 4 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 4 percent

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 1 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 17, Sep 12, 2021

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Pyote**

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 17, Sep 12, 2021

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

National Flood Hazard Layer FIRMette



103°49'6"W 32°50'2"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
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
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.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/25/2021 at 5:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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	NAPP2103541864
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party SPUR ENERGY PARTNERS	OGRID 328947
Contact Name BRAIDY MOULDER	Contact Telephone 713-264-2517
Contact email BMOULDER@SPUREPLLC.COM	Incident # (assigned by OCD)
Contact mailing address 919 MILAM STREET SUITE 2475 HOUSTON, TEXAS 77002	

Location of Release Source

Latitude **32.8295326**Longitude **-103.8126678**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name HT 18 FEDERAL #1	Site Type PRODUCTION
Date Release Discovered 1/17/2020	API# (if applicable) 30-025-39974

Unit Letter	Section	Township	Range	County
M	18	17S	32E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2BBLS	Volume Recovered (bbls) 1.5BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3BBLS	Volume Recovered (bbls) 2BBLS
	Is the concentration of dissolved chloride 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

THREADS ON 2" STEEL LINE WASHED OUT CAUSING THE 5BBL RELEASE. ALL FLUIDS REMAINED ON THE PRODUCTION PAD.

Incident ID	NAPP2103541864
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

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

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

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

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

Printed Name: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY

Signature:  Date: 2/4/20

email: natalie@energystaffingllc.com

Telephone: 575-390-6397

OCD Only

Received by: Ramona Marcus Date: 2/9/2021

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Received by OGD: 1/3/2023 11:35:30 AM

Released to Imaging: 1/25/2023 3:27:23 PM

Incident ID	NAPP2103541864
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?	81 (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.

Form C-141

Page 4

State of New Mexico

Oil Conservation Division

Incident ID	NAPP2103541864
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: Braidy Moulder

Title: HSE Coordinator

Signature: Braidy Moulder

Date: 3/16/2022

email: bmoulder@spurepllc.com

Telephone: 713-264-2517

OCD Only

Received by:

Date:

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2103541864
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: Braidy Moulder Title: HSE Coordinator
 Signature: Braidy Moulder Date: 3/16/2022
 email: bmoulder@spurepllc.com Telephone: 713-264-2517

OCD Only

Received by: _____ Date: _____

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.com

From: Gio PimaOil <gio@pimaoil.com>
Sent: Wednesday, February 23, 2022 7:40 AM
To: ocdonline@state.nm.us; Tom Pima Oil
Subject: Confirmation for samples at HT 18 Federal #1

Good morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the HT 18 Federal #1 for incident NAPP2103541864. Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Friday, February 25, 2022, If you have any questions or concerns, please let me know. Thank you

--

Gio Gomez
Environmental Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
SPUR ENERGY PARTNERS**

HT 18 FED #001

Pre-Treatment





Remediation









Post Treatment





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: HT 18 Federal #1

Work Order: E202064

Job Number: 21068-0001

Received: 2/12/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/21/22

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: 2/21/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: HT 18 Federal #1
Workorder: E202064
Date Received: 2/12/2022 11:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/12/2022 11:30:00AM, under the Project Name: HT 18 Federal #1.

The analytical test results summarized in this report with the Project Name: HT 18 Federal #1 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

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported: 02/21/22 17:10
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1- Surface	E202064-01A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S1-2'	E202064-02A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S2- Surface	E202064-03A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S2-2'	E202064-04A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S3- Surface	E202064-05A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S3-2'	E202064-06A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S4- Surface	E202064-07A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S4-2'	E202064-08A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S4-4'	E202064-09A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S5- Surface	E202064-10A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S6- Surface	E202064-11A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S6-2'	E202064-12A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S7- Surface	E202064-13A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S7-2'	E202064-14A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S7-4'	E202064-15A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S8- Surface	E202064-16A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S8-2'	E202064-17A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S9- Surface	E202064-18A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S10- Surface	E202064-19A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S10-2'	E202064-20A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S10-4'	E202064-21A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S11-Surface	E202064-22A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S11-2'	E202064-23A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S12- Surface	E202064-24A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S13- Surface	E202064-25A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S13-2'	E202064-26A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S14- Surface	E202064-27A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
S15- Surface	E202064-28A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S1- Surface

E202064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	115 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
Surrogate: n-Nonane	106 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	4680	40.0	2	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S1-2'

E202064-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	118 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	527	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S2- Surface

E202064-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	346	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	339	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	1210	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S2-2'

E202064-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	116 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	129	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S3- Surface

E202064-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	114 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	146	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	357	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	9310	100	5	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S3-2'

E202064-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	114 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	343	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S4- Surface

E202064-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	34.6	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	6260	40.0	2	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S4-2'

E202064-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	898	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S4-4'

E202064-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	115 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/18/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		02/17/22	02/18/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	1140	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S5- Surface

E202064-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	116 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	140 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	668	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S6- Surface

E202064-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.7 %	70-130	02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	690	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	841	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
		137 %	50-200	02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	967	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S6-2'

E202064-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	115 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	379	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S7- Surface

E202064-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	13000	100	5	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S7-2'

E202064-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	56.5	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	1370	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S7-4'

E202064-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	115 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	256	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S8- Surface

E202064-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	114 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	3650	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	109	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	227 %	50-200		02/17/22	02/19/22	SI
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	2370	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S8-2'

E202064-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	114 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	154	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S9- Surface

E202064-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	114 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208065
Diesel Range Organics (C10-C28)	35.2	25.0	1	02/17/22	02/19/22	
Oil Range Organics (C28-C36)	97.1	50.0	1	02/17/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	138 %	50-200		02/17/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	ND	20.0	1	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S10- Surface

E202064-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2208024	
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.5 %	70-130	02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2208024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		115 %	70-130	02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2208062	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/17/22	
<i>Surrogate: n-Nonane</i>		110 %	50-200	02/16/22	02/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2208041	
Chloride	8110	100	5	02/15/22	02/17/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S10-2'

E202064-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208024
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	116 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208041
Chloride	2840	40.0	2	02/15/22	02/18/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S10-4'

E202064-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	3140	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S11-Surface

E202064-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	16100	400	20	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S11-2'

E202064-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	111	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S12- Surface

E202064-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/16/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/16/22	
Toluene	ND	0.0250	1	02/15/22	02/16/22	
o-Xylene	ND	0.0250	1	02/15/22	02/16/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/16/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		02/15/22	02/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	125	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S13- Surface

E202064-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	22900	400	20	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S13-2'

E202064-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	244	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S14- Surface

E202064-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	430	20.0	1	02/15/22	02/16/22	



Sample Data

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

Project Name: HT 18 Federal #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
2/21/2022 5:10:57PM

S15- Surface

E202064-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		02/15/22	02/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208062
Diesel Range Organics (C10-C28)	35.7	25.0	1	02/16/22	02/19/22	
Oil Range Organics (C28-C36)	52.4	50.0	1	02/16/22	02/19/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		02/16/22	02/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2208043
Chloride	394	20.0	1	02/15/22	02/16/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2022 5:10:57PM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2208024-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

LCS (2208024-BS1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.37	0.0250	5.00		107	70-130			
o-Xylene	5.08	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike (2208024-MS1)

Source: E202064-03

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	4.96	0.0250	5.00	ND	99.1	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.34	0.0250	5.00	ND	107	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2208024-MSD1)

Source: E202064-03

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	5.02	0.0250	5.00	ND	100	54-133	1.34	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	0.988	20	
Toluene	5.40	0.0250	5.00	ND	108	61-130	1.03	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	1.24	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	0.914	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.02	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported: 2/21/2022 5:10:57PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2208026-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2208026-BS1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.0	70-130			
Toluene	4.73	0.0250	5.00		94.7	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

Matrix Spike (2208026-MS1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.5	61-133			
Toluene	4.75	0.0250	5.00	ND	95.1	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.7	63-131			
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2208026-MSD1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Benzene	4.62	0.0250	5.00	ND	92.4	54-133	0.651	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133	0.855	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	0.705	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	0.749	20	
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	63-131	0.957	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.0	63-131	0.888	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported: 2/21/2022 5:10:57PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2208024-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.34		8.00		117	70-130			

LCS (2208024-BS2)

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	59.1	20.0	50.0		118	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.49		8.00		119	70-130			

Matrix Spike (2208024-MS2)

Source: E202064-03

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	58.2	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.36		8.00		117	70-130			

Matrix Spike Dup (2208024-MSD2)

Source: E202064-03

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130	0.711	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.46		8.00		118	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2022 5:10:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2208026-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		8.00		111	70-130			

LCS (2208026-BS2)

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.97		8.00		112	70-130			

Matrix Spike (2208026-MS2)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.99		8.00		112	70-130			

Matrix Spike Dup (2208026-MSD2)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	2.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2022 5:10:57PM

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 (2208062-BLK1)

Prepared: 02/16/22 Analyzed: 02/17/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.3		50.0		86.7	50-200			

LCS (2208062-BS1)

Prepared: 02/16/22 Analyzed: 02/17/22

Diesel Range Organics (C10-C28)	458	25.0	500		91.5	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike (2208062-MS1)

Source: E202064-19

Prepared: 02/16/22 Analyzed: 02/17/22

Diesel Range Organics (C10-C28)	461	25.0	500	ND	92.3	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike Dup (2208062-MSD1)

Source: E202064-19

Prepared: 02/16/22 Analyzed: 02/17/22

Diesel Range Organics (C10-C28)	464	25.0	500	ND	92.7	38-132	0.505	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2022 5:10:57PM

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 (2208065-BLK1)

Prepared: 02/17/22 Analyzed: 02/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.4		50.0		119	50-200			

LCS (2208065-BS1)

Prepared: 02/17/22 Analyzed: 02/21/22

Diesel Range Organics (C10-C28)	478	25.0	500		95.6	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike (2208065-MS1)

Source: E202064-09

Prepared: 02/17/22 Analyzed: 02/18/22

Diesel Range Organics (C10-C28)	475	25.0	500	ND	94.9	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			

Matrix Spike Dup (2208065-MSD1)

Source: E202064-09

Prepared: 02/17/22 Analyzed: 02/18/22

Diesel Range Organics (C10-C28)	485	25.0	500	ND	96.9	38-132	2.07	20	
Surrogate: n-Nonane	52.6		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported: 2/21/2022 5:10:57PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2208041-BLK1)					Prepared: 02/15/22 Analyzed: 02/16/22				
Chloride	ND	20.0							
LCS (2208041-BS1)					Prepared: 02/15/22 Analyzed: 02/18/22				
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2208041-MS1)					Source: E202064-01		Prepared: 02/15/22 Analyzed: 02/18/22		
Chloride	6080	40.0	250	4680	562	80-120			M5
Matrix Spike Dup (2208041-MSD1)					Source: E202064-01		Prepared: 02/15/22 Analyzed: 02/18/22		
Chloride	6590	40.0	250	4680	763	80-120	7.94	20	M5



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Federal #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2022 5:10:57PM

Anions by EPA 300.0/9056A

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 (2208043-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Chloride ND 20.0

LCS (2208043-BS1)

Prepared: 02/15/22 Analyzed: 02/16/22

Chloride 239 20.0 250 95.7 90-110

Matrix Spike (2208043-MS1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/16/22

Chloride 3910 20.0 250 3140 307 80-120 M1

Matrix Spike Dup (2208043-MSD1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/16/22

Chloride 3670 20.0 250 3140 211 80-120 6.32 20 M1

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:	HT 18 Federal #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/21/22 17:10

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- S1 Surrogate spike recovery was outside of the established acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: HT 18 Federal #1					Attention: SPUR ENERGY		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		E202064		21008-0001					X		
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method								RCRA	
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project #											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											
	2/9/22	Soil	1-402	S1-Surface	1									X		
				S1-2'	2											
				S2-Surface	3											
				S2-2'	4											
				S3-Surface	5											
				S3-2'	6											
				S4-Surface	7											
				S4-2'	8											
				S4-4'	9											
				S5-Surface	10											
Additional Instructions:						*If shallow soil samples are less than the ppm standard listed below, deeper sample does not need to be screened for that specific method.										
Chloride: 600 ppm, BTEX: 50 ppm, TPH: 100 ppm																
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: 50										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
[Signature]		2/11/22	1250	[Signature]		2.11.22	1250	Received on ice: Y / N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
[Signature]		2.11.22	1700	[Signature]		2/12/22	11:30									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4								
[Signature]				[Signature]												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: HT 19 Federal #1					Attention: SPUR ENERGY		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		E 2020404		21068-0001					X		
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method								RCRA	
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				
Phone: 580-748-1613					Email:								BDOC NM	BDOC TX		
Email: tom@pimaoil.com					Pima Project #											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks										
	2/9/22	Soil	1-4oz	S6-Surface	11	X										
				S6-2'	12											
				S7-Surface	13											
				S7-2'	14											
				S7-4'	15											
				S8-Surface	16											
				S8-2'	17											
				S9-Surface	18											
				S10-Surface	19											
				S10-2'	20											
Additional Instructions: SAME AS PAGE #1																
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: SO																
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
[Signature]		2/11/22	1250	[Signature]		2/11/22	1250	Received on ice: <u>Y</u> N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
[Signature]		2/11/22	1700	[Signature]		2/12/22	11:30									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>								
[Signature]				[Signature]												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Project Information

Chain of Custody

Page 3 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program			
Project: HT 18 Federal #1					Attention: SPUR ENERGY		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum					Address:		E202064		21068-0001					X				
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method										RCRA	
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						
Phone: 580-748-1613					Email:													
Email: tom@pimaoil.com					Pima Project #													
Report due by:																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
	2/9/22	Soil	1-402	S10-4'	21									X				
				S11-Surface	22													
				S11-2'	23													
				S12-Surface	24													
				S13-Surface	25													
				S13-2'	26													
				S14-Surface	27													
				S15-Surface	28													
Additional Instructions: SAME AS PAGE #1																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
[Signature]		2/11/22	1250	[Signature]		2-11-22	1250	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
[Signature]		2-11-22	1700	[Signature]		2/2/22	11:30											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>										
[Signature]				[Signature]														
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: 2/16/2022 9:20:42AM

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:	02/12/22 11:30	Work Order ID:	E202064
Phone:	(575) 631-6977	Date Logged In:	02/11/22 15:39	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/18/22 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CarrierSample 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 InstructionComments/Resolution

No sample times provided on COC. COC notes: Chloride: 600ppm, BTEX: 50ppm, TPH: 100ppm.
 -If shallow soil samples are less than the ppm standard listed below, deeper sample does not need to be screened for that specific method.

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: HT 18 Fed #1

Work Order: E203013

Job Number: 21068-0001

Received: 3/2/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/8/22

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: 3/8/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: HT 18 Fed #1
Workorder: E203013
Date Received: 3/2/2022 10:25:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/2/2022 10:25:00AM, under the Project Name: HT 18 Fed #1.

The analytical test results summarized in this report with the Project Name: HT 18 Fed #1 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
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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/08/22 14:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW - 1	E203013-01A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 2	E203013-02A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 3	E203013-03A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 4	E203013-04A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 5	E203013-05A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 6	E203013-06A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 7	E203013-07A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 8	E203013-08A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 9	E203013-09A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 10	E203013-10A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 11	E203013-11A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 12	E203013-12A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 13	E203013-13A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 14	E203013-14A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
SW - 15	E203013-15A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 1	E203013-16A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 2	E203013-17A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 3	E203013-18A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 4	E203013-19A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 5	E203013-20A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 1

E203013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
<i>Surrogate: Bromofluorobenzene</i>	94.5 %	70-130		03/03/22	03/07/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.2 %	70-130		03/03/22	03/07/22	
<i>Surrogate: Toluene-d8</i>	99.8 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
<i>Surrogate: Bromofluorobenzene</i>	94.5 %	70-130		03/03/22	03/07/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.2 %	70-130		03/03/22	03/07/22	
<i>Surrogate: Toluene-d8</i>	99.8 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
<i>Surrogate: n-Nonane</i>	135 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 2

E203013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	98.8 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	98.8 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	138 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 3

E203013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	94.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	165 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	164	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 4

E203013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.3 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.6 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.3 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.6 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	132 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 5

E203013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	143 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 6

E203013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	135 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 7

E203013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	193 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 8

E203013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	125 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 9

E203013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	117 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 10

E203013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	136 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 11

E203013-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.0 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	99.0 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	144 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 12

E203013-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	138 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 13

E203013-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	92.4 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	100 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	142 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 14

E203013-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/07/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/07/22	
Toluene	ND	0.0250	1	03/03/22	03/07/22	
o-Xylene	ND	0.0250	1	03/03/22	03/07/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/07/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/07/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/03/22	03/07/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/07/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	144 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

SW - 15

E203013-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	141 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	ND	20.0	1	03/04/22	03/05/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

CS - 1

E203013-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	138 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	119	20.0	1	03/04/22	03/05/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

CS - 2

E203013-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	92.8 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	92.8 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	135 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	230	20.0	1	03/04/22	03/05/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

CS - 3

E203013-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210047
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	130 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210045
Chloride	794	20.0	1	03/04/22	03/05/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

CS - 4

E203013-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210047	
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210051	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	142 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210045	
Chloride	ND	20.0	1	03/04/22	03/05/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/8/2022 2:21:36PM

CS - 5

E203013-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210047	
Benzene	ND	0.0250	1	03/03/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/03/22	03/08/22	
Toluene	ND	0.0250	1	03/03/22	03/08/22	
o-Xylene	ND	0.0250	1	03/03/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/03/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	99.3 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/22	03/08/22	
Surrogate: Bromofluorobenzene	93.0 %	70-130		03/03/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/03/22	03/08/22	
Surrogate: Toluene-d8	99.3 %	70-130		03/03/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210051	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/05/22	
Surrogate: n-Nonane	138 %	50-200		03/04/22	03/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210045	
Chloride	ND	20.0	1	03/04/22	03/05/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/8/2022 2:21:36PM

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 (2210047-BLK1)

Prepared: 03/03/22 Analyzed: 03/07/22

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	0.461		0.500		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2210047-BS1)

Prepared: 03/03/22 Analyzed: 03/07/22

Benzene	2.52	0.0250	2.50		101	70-130			
Ethylbenzene	2.63	0.0250	2.50		105	70-130			
Toluene	2.64	0.0250	2.50		106	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.71	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike (2210047-MS1)

Source: E203013-02

Prepared: 03/03/22 Analyzed: 03/07/22

Benzene	2.49	0.0250	2.50	ND	99.4	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.57	0.0250	2.50	ND	103	48-130			
o-Xylene	2.51	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.05	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.56	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike Dup (2210047-MSD1)

Source: E203013-02

Prepared: 03/03/22 Analyzed: 03/07/22

Benzene	2.61	0.0250	2.50	ND	104	48-131	4.89	23	
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135	5.72	27	
Toluene	2.75	0.0250	2.50	ND	110	48-130	6.96	24	
o-Xylene	2.66	0.0250	2.50	ND	106	43-135	5.55	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	5.30	27	
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135	5.38	27	
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/8/2022 2:21:36PM

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 (2210047-BLK1)

Prepared: 03/03/22 Analyzed: 03/07/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.461		0.500		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2210047-BS2)

Prepared: 03/03/22 Analyzed: 03/07/22

Gasoline Range Organics (C6-C10)	58.6	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2210047-MS2)

Source: E203013-02

Prepared: 03/03/22 Analyzed: 03/07/22

Gasoline Range Organics (C6-C10)	63.1	20.0	50.0	ND	126	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2210047-MSD2)

Source: E203013-02

Prepared: 03/03/22 Analyzed: 03/07/22

Gasoline Range Organics (C6-C10)	63.9	20.0	50.0	ND	128	70-130	1.26	20	
Surrogate: Bromofluorobenzene	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/8/2022 2:21:36PM

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 (2210051-BLK1)

Prepared: 03/04/22 Analyzed: 03/05/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.7		50.0		123	50-200			

LCS (2210051-BS1)

Prepared: 03/04/22 Analyzed: 03/05/22

Diesel Range Organics (C10-C28)	597	25.0	500		119	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

Matrix Spike (2210051-MS1)

Source: E203013-20

Prepared: 03/04/22 Analyzed: 03/05/22

Diesel Range Organics (C10-C28)	637	25.0	500	ND	127	38-132			
Surrogate: n-Nonane	65.3		50.0		131	50-200			

Matrix Spike Dup (2210051-MSD1)

Source: E203013-20

Prepared: 03/04/22 Analyzed: 03/05/22

Diesel Range Organics (C10-C28)	635	25.0	500	ND	127	38-132	0.332	20	
Surrogate: n-Nonane	65.0		50.0		130	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/8/2022 2:21:36PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2210045-BLK1)					Prepared: 03/04/22 Analyzed: 03/04/22				
Chloride	ND	20.0							
LCS (2210045-BS1)					Prepared: 03/04/22 Analyzed: 03/04/22				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2210045-MS1)					Source: E203013-01		Prepared: 03/04/22 Analyzed: 03/04/22		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2210045-MSD1)					Source: E203013-01		Prepared: 03/04/22 Analyzed: 03/04/22		
Chloride	254	20.0	250	ND	102	80-120	0.216	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:	HT 18 Fed #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/08/22 14:21

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

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

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



Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services					Bill To <u>SPUR Energy</u>					Lab Use Only				TAT				EPA Program			
Project: <u>AT 18 Fed #1</u>					Attention: _____					Lab WO# <u>E203013</u>		Job Number <u>21068-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum					Address: _____					Analysis and Method											
Address: 5614 N. Lovington Hwy.					City, State, Zip _____																
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone: _____					DRG/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOR NM BGDOR TX										State	
Phone: 580-748-1613					Email: _____															NM	
Email: tom@pimaoil.com					Pima Project # <u>6-46</u>					Remarks											
Report due by: <u>Sebastian Orozco</u>																				X	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
9:00	2/25/22	S	1	SW-1	1				X								X				
9:05	[Signature]	[Signature]	[Signature]	SW-2	2																
9:10				SW-3	3																
9:15				SW-4	4																
9:20				SW-5	5																
9:25				SW-6	6																
9:30				SW-7	7																
9:35				SW-8	8																
9:40				SW-9	9																
9:45				SW-10	10																
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> / <u>N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____												Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services					Bill To <u>Spur Energy</u>					Lab Use Only					TAT				EPA Program			
Project: <u>HT 18 Feed #1</u>					Attention:					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum					Address:					<u>E 203013</u>		<u>21068-0001</u>										
Address: 5614 N. Lovington Hwy.					City, State, Zip					Analysis and Method										RCRA		
City, State, Zip: Hobbs, NM, 88240					Phone:					DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			
Phone: 580-748-1613					Email:																	
Email: tom@pimaoil.com					Pima Project # <u>6-46</u>																	
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:50	2/25/22	S	1	SW-11	11						X			X			X					
9:55				SW-12	12																	
10:00				SW-13	13																	
10:05				SW-14	14																	
10:10				SW-15	15																	
10:15				CS-1	16																	
10:20				CS-2	17																	
10:25				CS-3	18																	
10:30				CS-4	19																	
10:35				CS-5	20																	
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only				
<u>[Signature]</u>					3/1/22		1400		<u>[Signature]</u>					3.1.22		1400		Received on ice: <u>Y</u> / N				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1				
<u>[Signature]</u>					3.1.22		1645		<u>Carsten Carsten</u>					3/2/22		10:25		T2				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T3				
																		AVG Temp °C <u>4</u>				
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other										Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

Envirotech Analytical Laboratory

Printed: 3/2/2022 12:47:16PM

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:	03/02/22 10:25	Work Order ID:	E203013
Phone:	(575) 631-6977	Date Logged In:	03/02/22 08:29	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/08/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project has been separated into 2 reports due to amount of samples. Workorders are as follows:
E203013 COC page 1 of 4 and 2 of 4.
E203014 COC page 3 of 4 and 4 of 4.

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: HT 18 Fed #1

Work Order: E203014

Job Number: 21068-0001

Received: 3/2/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/9/22

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: 3/9/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: HT 18 Fed #1
Workorder: E203014
Date Received: 3/2/2022 10:25:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/2/2022 10:25:00AM, under the Project Name: HT 18 Fed #1.

The analytical test results summarized in this report with the Project Name: HT 18 Fed #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
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labadmin@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/09/22 13:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS - 6	E203014-01A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 7	E203014-02A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 8	E203014-03A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 9	E203014-04A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 10	E203014-05A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 11	E203014-06A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 12	E203014-07A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 13	E203014-08A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 14	E203014-09A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 15	E203014-10A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 16	E203014-11A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 17	E203014-12A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.
CS - 18	E203014-13A	Soil	02/25/22	03/02/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 6

E203014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
<i>Surrogate: Bromofluorobenzene</i>	93.2 %	70-130		03/04/22	03/08/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130		03/04/22	03/08/22	
<i>Surrogate: Toluene-d8</i>	99.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
<i>Surrogate: Bromofluorobenzene</i>	93.2 %	70-130		03/04/22	03/08/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130		03/04/22	03/08/22	
<i>Surrogate: Toluene-d8</i>	99.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
<i>Surrogate: n-Nonane</i>	98.5 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	91.9	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 7

E203014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	106 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	249	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 8

E203014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	102 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	253	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 9

E203014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210052	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	104 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210049	
Chloride	41.0	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 10

E203014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	107 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	ND	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 11

E203014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	105 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	175	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 12

E203014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	93.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210052	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	103 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210049	
Chloride	172	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 13

E203014-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	97.8 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	97.8 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	110 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	91.4	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 14

E203014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	89.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	89.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.5 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210052	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	112 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210049	
Chloride	25.9	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 15

E203014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.0 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.0 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	107 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	46.9	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 16

E203014-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.6 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	99.6 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	109 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	ND	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 17

E203014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2210050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	100 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2210052	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	105 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2210049	
Chloride	38.8	20.0	1	03/03/22	03/04/22	



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/9/2022 1:39:11PM

CS - 18

E203014-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Benzene	ND	0.0250	1	03/04/22	03/08/22	
Ethylbenzene	ND	0.0250	1	03/04/22	03/08/22	
Toluene	ND	0.0250	1	03/04/22	03/08/22	
o-Xylene	ND	0.0250	1	03/04/22	03/08/22	
p,m-Xylene	ND	0.0500	1	03/04/22	03/08/22	
Total Xylenes	ND	0.0250	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.9 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2210050
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/22	03/08/22	
Surrogate: Bromofluorobenzene	91.9 %	70-130		03/04/22	03/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/04/22	03/08/22	
Surrogate: Toluene-d8	101 %	70-130		03/04/22	03/08/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2210052
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/22	03/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/22	03/04/22	
Surrogate: n-Nonane	103 %	50-200		03/04/22	03/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2210049
Chloride	ND	20.0	1	03/03/22	03/04/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/9/2022 1:39:11PM

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 (2210050-BLK1)

Prepared: 03/04/22 Analyzed: 03/08/22

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	0.458		0.500		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2210050-BS1)

Prepared: 03/04/22 Analyzed: 03/08/22

Benzene	2.62	0.0250	2.50		105	70-130			
Ethylbenzene	2.69	0.0250	2.50		107	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.66	0.0250	2.50		106	70-130			
p,m-Xylene	5.28	0.0500	5.00		105	70-130			
Total Xylenes	7.93	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike (2210050-MS1)

Source: E203014-01

Prepared: 03/04/22 Analyzed: 03/08/22

Benzene	2.59	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135			
Toluene	2.70	0.0250	2.50	ND	108	48-130			
o-Xylene	2.65	0.0250	2.50	ND	106	43-135			
p,m-Xylene	5.28	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.93	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2210050-MSD1)

Source: E203014-01

Prepared: 03/04/22 Analyzed: 03/08/22

Benzene	2.71	0.0250	2.50	ND	108	48-131	4.51	23	
Ethylbenzene	2.78	0.0250	2.50	ND	111	45-135	2.86	27	
Toluene	2.80	0.0250	2.50	ND	112	48-130	3.49	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	3.83	27	
p,m-Xylene	5.49	0.0500	5.00	ND	110	43-135	3.85	27	
Total Xylenes	8.24	0.0250	7.50	ND	110	43-135	3.85	27	
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/9/2022 1:39:11PM

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 (2210050-BLK1)

Prepared: 03/04/22 Analyzed: 03/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.458		0.500		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2210050-BS2)

Prepared: 03/04/22 Analyzed: 03/08/22

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.4	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2210050-MS2)

Source: E203014-01

Prepared: 03/04/22 Analyzed: 03/08/22

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2210050-MSD2)

Source: E203014-01

Prepared: 03/04/22 Analyzed: 03/08/22

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	0.605	20	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/9/2022 1:39:11PM

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 (2210052-BLK1)

Prepared: 03/04/22 Analyzed: 03/04/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	50-200			

LCS (2210052-BS1)

Prepared: 03/04/22 Analyzed: 03/04/22

Diesel Range Organics (C10-C28)	460	25.0	500		92.0	38-132			
Surrogate: <i>n</i> -Nonane	51.4		50.0		103	50-200			

Matrix Spike (2210052-MS1)

Source: E203014-06

Prepared: 03/04/22 Analyzed: 03/04/22

Diesel Range Organics (C10-C28)	458	25.0	500	ND	91.5	38-132			
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2210052-MSD1)

Source: E203014-06

Prepared: 03/04/22 Analyzed: 03/04/22

Diesel Range Organics (C10-C28)	456	25.0	500	ND	91.1	38-132	0.471	20	
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/9/2022 1:39:11PM

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 (2210049-BLK1)

Prepared: 03/03/22 Analyzed: 03/04/22

Chloride ND 20.0

LCS (2210049-BS1)

Prepared: 03/03/22 Analyzed: 03/04/22

Chloride 249 20.0 250 99.5 90-110

Matrix Spike (2210049-MS1)

Source: E203014-01

Prepared: 03/03/22 Analyzed: 03/04/22

Chloride 356 20.0 250 91.9 106 80-120

Matrix Spike Dup (2210049-MSD1)

Source: E203014-01

Prepared: 03/03/22 Analyzed: 03/04/22

Chloride 349 20.0 250 91.9 103 80-120 1.96 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:	HT 18 Fed #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/09/22 13:39

- 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

Page 3 of 4

Client: Pima Environmental Services					Bill To <u>SPUR Energy</u>					Lab Use Only					TAT				EPA Program				
Project: <u>HT 18 Fed #1</u>					Attention: _____					Lab WO# <u>E203014</u>		Job Number <u>21068-0001</u>			1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Tom Bynum					Address: _____					Analysis and Method													
Address: 5614 N. Lovington Hwy.					City, State, Zip _____					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX				
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone: _____																		
Phone: 580-748-1613					Email: _____																		
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>6-46</u>																		
Report due by: _____																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
10:40	2/25/22	S	1	CS-6	1						X			X			X						
10:45				CS-7	2																		
10:50				CS-8	3																		
10:55				CS-9	4																		
11:00				CS-10	5																		
11:05				CS-11	6																		
11:10				CS-12	7																		
11:15				CS-13	8																		
11:20				CS-14	9																		
11:25				CS-15	10																		
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Relinquished by: (Signature) _____					Date <u>3/1/22</u>		Time <u>1400</u>		Received by: (Signature) _____					Date <u>3.1.22</u>		Time <u>1400</u>		Lab Use Only					
Relinquished by: (Signature) _____					Date <u>3.1.22</u>		Time <u>1645</u>		Received by: (Signature) <u>Carleen Chute</u>					Date <u>3/2/22</u>		Time <u>10:25</u>		Received on ice: <u>Y</u> / N					
Relinquished by: (Signature) _____					Date _____		Time _____		Received by: (Signature) _____					Date _____		Time _____		T1 _____ T2 _____ T3 _____					
Sample Matrix: <u>S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</u>										Container Type: <u>g - glass, p - poly/plastic, ag - amber glass, v - VOA</u>													
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: 3/2/2022 12:52:20PM

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:	03/02/22 10:25	Work Order ID:	E203014
Phone:	(575) 631-6977	Date Logged In:	03/02/22 08:50	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/08/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project has been separated into 2 reports due to amount of samples. Workorders are as follows:
E203013 COC page 1 of 4 and 2 of 4.
E203014 COC page 3 of 4 and 4 of 4.

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: HT 18 Fed #1

Work Order: E203067

Job Number: 21068-0001

Received: 3/10/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/22

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: 3/18/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: HT 18 Fed #1
Workorder: E203067
Date Received: 3/10/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/10/2022 10:30:00AM, under the Project Name: HT 18 Fed #1.

The analytical test results summarized in this report with the Project Name: HT 18 Fed #1 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

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported: 03/18/22 12:35
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS - 3	E203067-01A	Soil	03/09/22	03/10/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: HT 18 Fed #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
3/18/2022 12:35:51PM

CS - 3

E203067-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2212022
Benzene	ND	0.0250	1	03/15/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/17/22	
Toluene	ND	0.0250	1	03/15/22	03/17/22	
o-Xylene	ND	0.0250	1	03/15/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/17/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		03/15/22	03/17/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/15/22	03/17/22	
Surrogate: Toluene-d8	99.4 %	70-130		03/15/22	03/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2212022
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/17/22	
Surrogate: Bromofluorobenzene	91.6 %	70-130		03/15/22	03/17/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		03/15/22	03/17/22	
Surrogate: Toluene-d8	99.4 %	70-130		03/15/22	03/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2212020
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/16/22	
Surrogate: n-Nonane	105 %	50-200		03/15/22	03/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2212060
Chloride	248	20.0	1	03/16/22	03/17/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2022 12:35:51PM

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 (2212022-BLK1)

Prepared: 03/15/22 Analyzed: 03/17/22

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	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2212022-BS1)

Prepared: 03/15/22 Analyzed: 03/17/22

Benzene	2.72	0.0250	2.50		109	70-130			
Ethylbenzene	2.78	0.0250	2.50		111	70-130			
Toluene	2.80	0.0250	2.50		112	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.36	0.0500	5.00		107	70-130			
Total Xylenes	8.03	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike (2212022-MS1)

Source: E203065-03

Prepared: 03/15/22 Analyzed: 03/17/22

Benzene	2.74	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.82	0.0250	2.50	ND	113	45-135			
Toluene	2.82	0.0250	2.50	ND	113	48-130			
o-Xylene	2.73	0.0250	2.50	ND	109	43-135			
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135			
Total Xylenes	8.18	0.0250	7.50	ND	109	43-135			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2212022-MSD1)

Source: E203065-03

Prepared: 03/15/22 Analyzed: 03/17/22

Benzene	2.68	0.0250	2.50	ND	107	48-131	2.08	23	
Ethylbenzene	2.77	0.0250	2.50	ND	111	45-135	1.97	27	
Toluene	2.77	0.0250	2.50	ND	111	48-130	2.00	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	1.94	27	
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135	2.84	27	
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135	2.54	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2022 12:35:51PM

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 (2212022-BLK1)

Prepared: 03/15/22 Analyzed: 03/17/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2212022-BS2)

Prepared: 03/15/22 Analyzed: 03/17/22

Gasoline Range Organics (C6-C10)	60.0	20.0	50.0		120	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2212022-MS2)

Source: E203065-03

Prepared: 03/15/22 Analyzed: 03/17/22

Gasoline Range Organics (C6-C10)	58.6	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2212022-MSD2)

Source: E203065-03

Prepared: 03/15/22 Analyzed: 03/17/22

Gasoline Range Organics (C6-C10)	59.5	20.0	50.0	ND	119	70-130	1.51	20	
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2022 12:35:51PM

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 (2212020-BLK1)

Prepared: 03/15/22 Analyzed: 03/16/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2212020-BS1)

Prepared: 03/15/22 Analyzed: 03/16/22

Diesel Range Organics (C10-C28)	446	25.0	500		89.1	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2212020-MS1)

Source: E203065-08

Prepared: 03/15/22 Analyzed: 03/16/22

Diesel Range Organics (C10-C28)	1930	25.0	500	1640	59.7	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike Dup (2212020-MSD1)

Source: E203065-08

Prepared: 03/15/22 Analyzed: 03/16/22

Diesel Range Organics (C10-C28)	2080	25.0	500	1640	88.7	38-132	7.24	20	
Surrogate: n-Nonane	51.4		50.0		103	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	HT 18 Fed #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2022 12:35:51PM

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 (2212060-BLK1)

Prepared: 03/16/22 Analyzed: 03/17/22

Chloride ND 20.0

LCS (2212060-BS1)

Prepared: 03/16/22 Analyzed: 03/17/22

Chloride 258 20.0 250 103 90-110

Matrix Spike (2212060-MS1)

Source: E203077-01

Prepared: 03/16/22 Analyzed: 03/17/22

Chloride 404 20.0 250 130 109 80-120

Matrix Spike Dup (2212060-MSD1)

Source: E203077-01

Prepared: 03/16/22 Analyzed: 03/17/22

Chloride 395 20.0 250 130 106 80-120 2.06 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:	HT 18 Fed #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/18/22 12:35

- 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.





Envirotech Analytical Laboratory

Printed: 3/10/2022 1:30:44PM

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:	Spur Energy Partners	Date Received:	03/10/22 10:30	Work Order ID:	E203067
Phone:	(832) 930-8546	Date Logged In:	03/10/22 11:52	Logged In By:	Caitlin Christian
Email:		Due Date:	03/16/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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 171691

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171691
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved.	1/25/2023