

PREPARED BY: PIMA ENVIRONMENTAL SERVICES, LLC

PREPARED FOR: DEVON ENERGY PRODUCTION CO, LP

BETELGEUSE 19 FEDERAL #6H
Incident ID nAPP2427725929

Remediation Closure Report

January 27, 2024

Page 2 of 23

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

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

Re: Remediation Closure Report
Betelgeuse 19 Federal #6H
API # 30-015-42031
NMOCD Incident ID nAPP2427725929

ULSTR - E - 20 - 19S - 31E 1699 FNL 265 FWL Eddy County, NM

**GPS Coordinates: Latitude 32.6484909 Longitude -103.8992157** 

This produced water release was discovered by the operator on October 2, 2024. The initial notification of release was submitted and approved on October 3, 2024 (OCD Online: Permitting – Application ID 389478). The initial C-141 form was submitted and approved on October 9, 2024 (OCD Online: Permitting – Application ID 391130). This incident was assigned Incident ID nAPP2427725929 by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Betelgeuse 19 Federal #6H (Betelgeuse) is located approximately twelve (12) miles southeast of Loco Hills, NM. This release area is in Unit E, Section 20, Township 19S, Range 31E, Latitude 32.6484909 Longitude -103.8992157, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is 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 (Appendix B). The soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The drainage class in this area is excessively drained (Appendix B). There is a medium potential for karst geology to be present around the Betelgeuse (Figure 3). Reference Figure 2 for a Topographic Map.

Based on the well water data from the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this vicinity measures greater than 55 feet below grade surface (bgs). This information is based on OSE CP-01943-POD1 which was drilled April 6, 2023, and is located approximately 120 feet northwest of this release area. Conversely, as per the United States Geological Survey well water data the nearest groundwater depth in this region is recorded at 119 feet bgs, from well USGS 3233730103524701 19S.31E.28.334133 with the last gauge being conducted in 1994. This well is situated approximately 1.9 miles southwest of the Betelgeuse release area. The nearest surface water body is Hackberry Lake approximately 2 miles southwest of this release area. For detailed references to Water Surveys and Water-Related Maps, please refer to Appendix A. The closure criteria for this area will be classified under the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC due to CP-01943-POD1.

#### **Release Information**

**nAPP2427725929:** On October 2, 2024, Tubing flowline cracked at wellhead. 11 bbls oil spilled onto pad. Recovered volumes not available at notification.

#### **Site Assessment and Delineation Activities**

On October 11 & 12, 2024, Pima Environmental mobilized personnel to the site to collect soil samples from within and around the edges of the release area for vertical and horizontal delineation. Forty (40) discrete samples were collected from 8 different sample points within the release area for vertical delineation. These samples were collected from depth intervals of surface, 1', 2', 3', and 4' bgs. Twenty-five (25) discrete samples were collected from 5 different sample points from around the edges of the release area for the purpose of horizontal delineation. These samples were collected from depths of surface, 1', 2', 3', and 4' bgs from each sample point. Two (2) samples were collected from 2 different points in the pasture to serve as background samples.

A total of sixty-seven (67) samples were put on ice, jarred, and delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. A 48-Hour Sampling Notification was submitted by Devon



on October 9, 2024, and can be referenced in Appendix C (OCD Online: Permitting – Application ID 391388).

On October 23, 2024, Pima personnel returned to the site to complete vertical delineation of all sample points except S6 which has been delineated. A total of seven (7) discrete samples were collected from the S1, S2, S3, S4, S5, S7, and S8 sample points from a depth of 5' bgs. All samples were placed on ice, jarred, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

All sample results can be found in the Data Tables in Figure 5. A corresponding Delineation Map can be found in Figure 4. Complete laboratory reports can be found in Appendix E. Photographic Documentation can be referenced in Appendix D.

### **Remediation Activities**

On October 31, 2024, the Devon construction department and Pima Environmental mobilized personnel and equipment to the site to begin remediation activities. A 200-square-foot area was excavated around the S4 sample point to a depth of 1.5' bgs. This yielded approximately 11 cubic yards of contaminated soil. The remainder of the release area was back dragged and blended with the surrounding pad surface. The contaminated soil was disposed of at an NMOCD-approved disposal facility. Clean, like material was brought to the location to be used for backfilling. An Excavation Map can be referenced in Figure 6.

On November 4, 2024, Pima returned to the site to collect confirmation samples of the excavated area after Devon had submitted a 48-hour notification of sampling event to the NMOCD. One (1) 5-point composite sample was collected from the base of the excavation, and one (1) 5-point composite sample was collected from the walls of the excavation. These samples were put on ice, jarred, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the Data Tables in Figure 5. A Confirmation Sample Map(a) is included for reference in Figure 7.

Based on the laboratory reports provided, the contamination levels are under the regulatory limits as per the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC.

#### **Remediation Closure Report Denied**

jburdine (11/19/2024), Remediation closure report denied. The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC

jburdine (11/19/2024), Operator failed to remediate following a division approved remediation plan. Blending of impacted soils is not an approved method.

jburdine (11/19/2024), Operator did not collect confirmation closure samples of the release/impacted area "to include" any areas that are wet or discolored. Delineation samples are not confirmation samples. Alternately, without division approval, the responsible party may elect to perform a composite and grab sample plan of the remediated area where each composite sample is not representative of more than 200 square feet per NMAC 19.15.29.12.D.1.c. Per this requirement Operator failed to submit the required amount of samples for the impacted area footprint.

jburdine (11/19/2024), Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. C-141 sampling notification stated sampling would take place after 11am however sampling was completed at 8am.

jburdine (11/19/2024), Operator must submit a remediation plan to OCD permitting that includes all the required attachments pursuant to 19.15.29.12 NMAC. To include a remediation sampling plan. The remediation plan is due to the division no later than January 3, 2025.

In response to the denied closure report, Devon submitted a remediation work plan to the NMOCD Pay Portal on November 21, 2024 (OCD Online: Permitting – Application ID 405518). This work plan was approved by the NMOCD on December 10, 2024.

On January 8,2025, the Devon construction department and Pima mobilized personnel and equipment to the site to begin scraping the release area as per the approved work plan. A hydrovac was used to spot underground lines prior to excavating. An area measuring approximately 1,132 square feet was scraped to a depth of approximately 8" bgs. This yielded a volume of soil equal to 30 cubic yards. The area was reduced from the original estimate in the work plan based on a current visual inspection and field screen test results taken during the scrape.

On January 17, 2025, Pima returned to the site to collect 5-point composite confirmation samples of the scraped area after

5614 N Lovington Hwy Hobbs, NM 88240



Devon had submitted a 48-hour notification of the confirmation sampling event to the NMOCD. Six (6) 5-point composite samples were collected from the base of the excavation, and six (6) 5-point composite samples were collected from the walls of the excavation. These samples were put on ice, jarred, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the Data Tables in Figure 5. A Confirmation Sample Map(b) is included for reference in Figure 8.

Based on the laboratory reports provided, the contamination levels are under the regulatory limits as per the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. The excavation was backfilled with the clean, like material that was brought to location, then repacked for normal day-to-day traffic.

### **Closure Request**

Devon has complied with the applicable closure requirements set forth in 19.15.29.12 NMAC and requests that this remediation closure report for incident ID nAPP2427725929 be approved. Devon understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan report addressing a minimum of four feet of non-waste containing earthen material. Followed by a revegetation plan report once the site has reached the required vegetative status.

For questions or additional information, please feel free to contact:

Devon Energy Production – Jim Raley at 575-689-7597 or <a href="mailto:jim.raley@dvn.com">jim.raley@dvn.com</a>.

Pima Environmental Services – Tom Bynum at 580-748-1613 or <a href="mailto:tom@pimaoil.com">tom@pimaoil.com</a>.

#### **Attachments**

#### Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Delineation Map
- 5- Data Tables
- 6- Excavation Map
- 7- Confirmation Sample Map(a)
- 8- Confirmation Sample Map(b)

#### Appendices:

Appendix A – Referenced Water Surveys & Water-Related Maps

Appendix B - Soil Survey & Geological Data

Appendix C – 48-Hour Notifications

Appendix D - Photographic Documentation

Appendix E – Laboratory Reports



# Figures:

**Location Map** 

**Topographic Map** 

**Karst Map** 

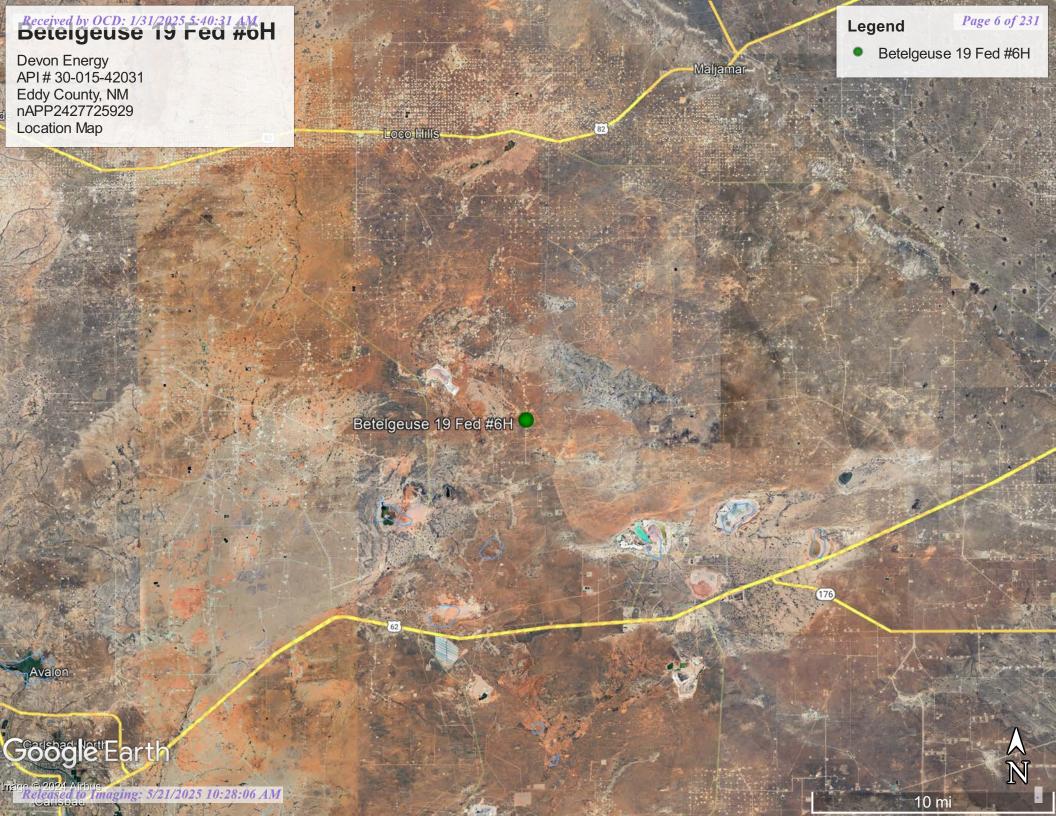
**Delineation Map** 

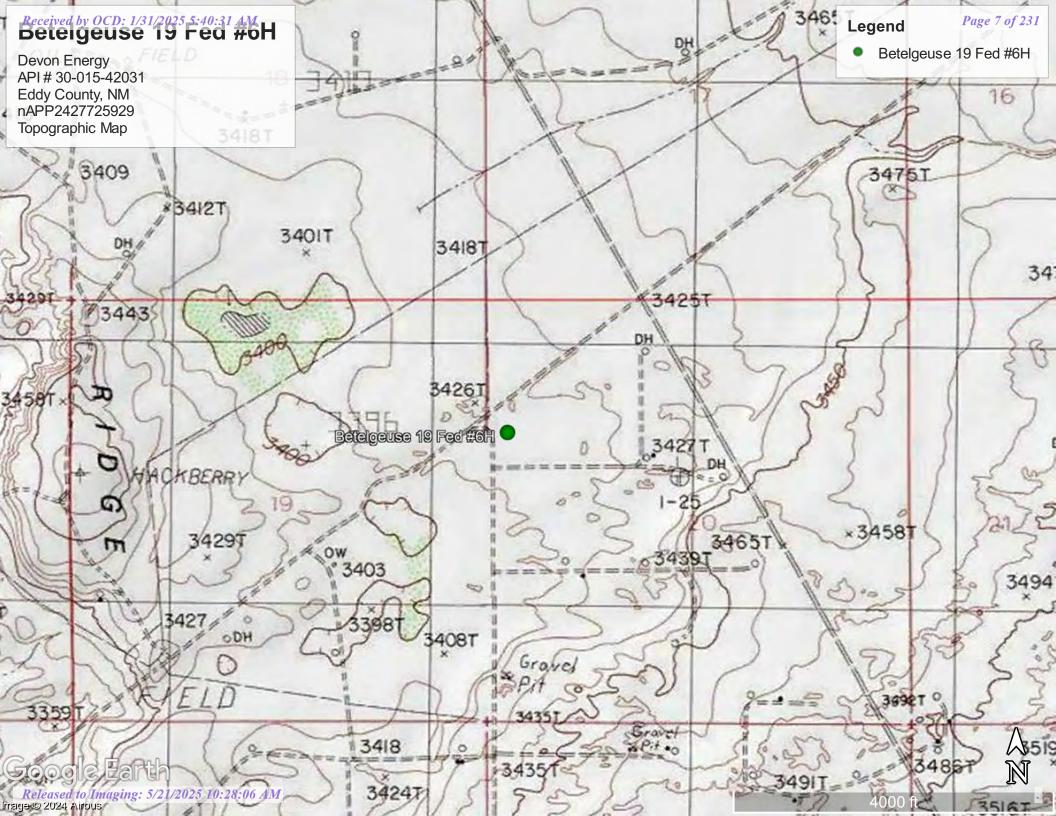
**Data Tables** 

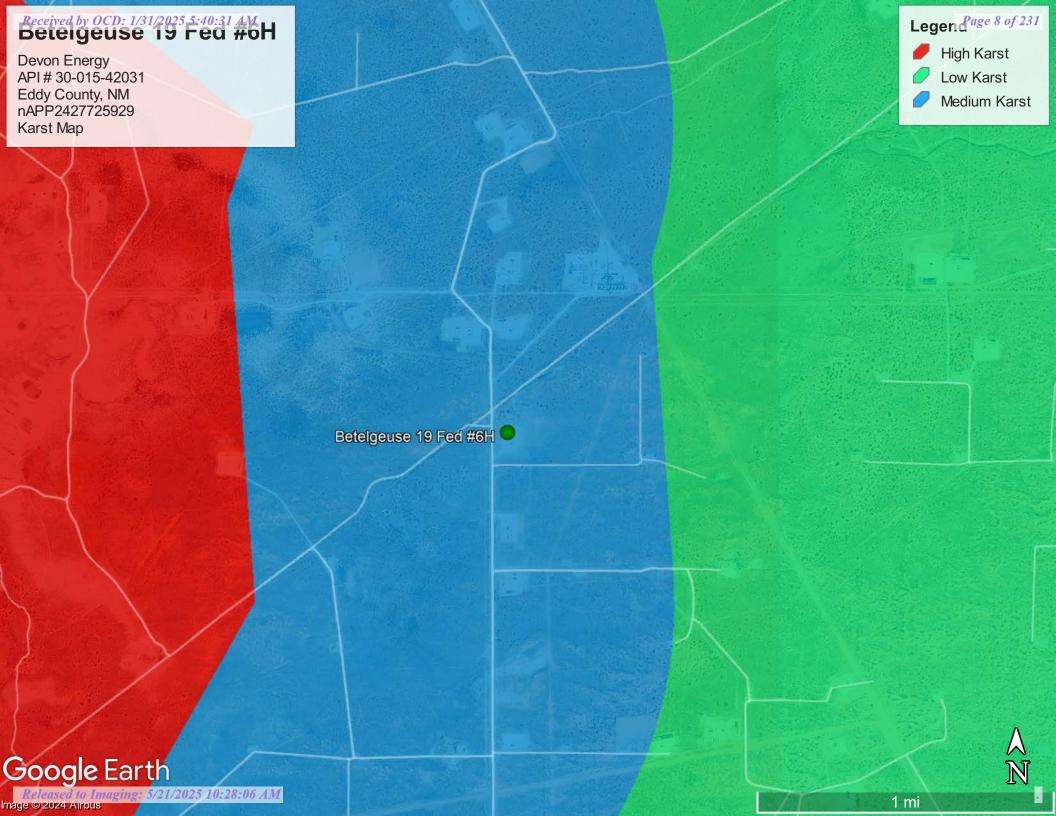
**Excavation Map** 

**Confirmation Sample Map(a)** 

**Confirmation Sample Map(b)** 









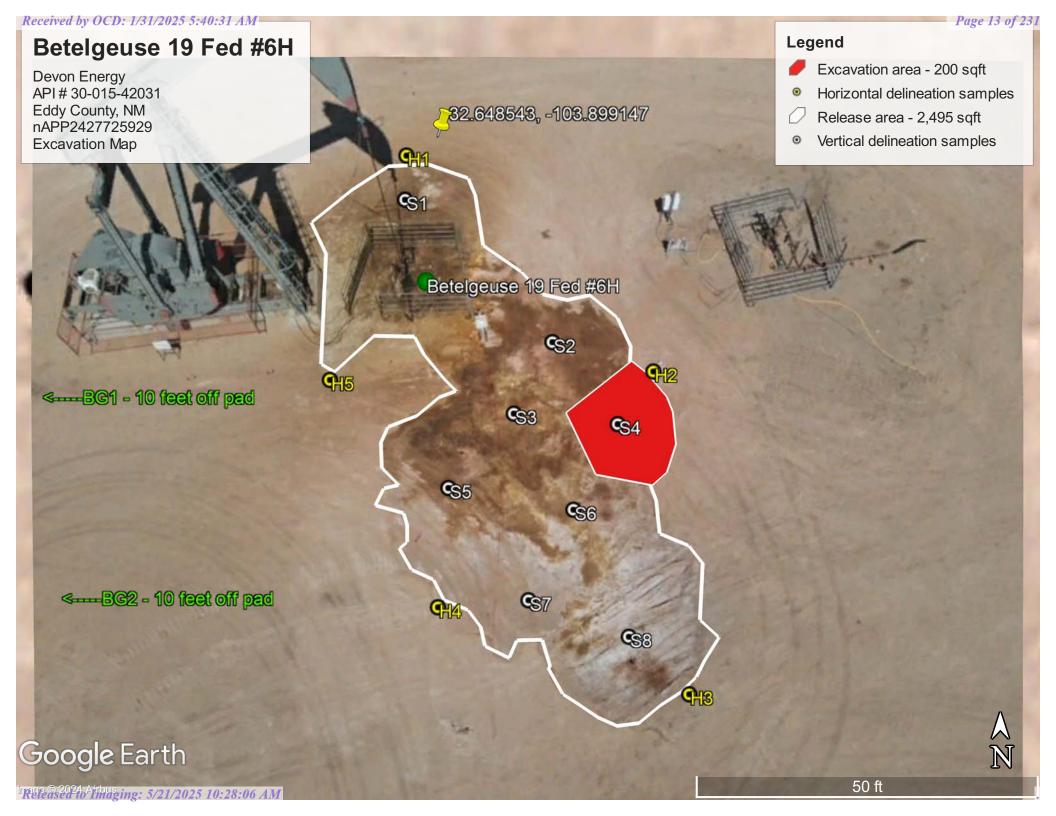
	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')										
	DI	EVON ENER	GY - Bete	lgeuse 19 F	ederal #6F	l - nAPP242	7725929				
			NM App	proved Lab	oratory Re	sults					
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg		
S1-Surface	10/11/2024	0'	ND	ND	ND	ND	ND	ND	4630		
S1-1'	10/11/2024	1'	ND	ND	ND	ND	ND	ND	4470		
S1-2'	10/11/2024	2'	ND	ND	ND	37.2	ND	37.2	1310		
S1-3'	10/11/2024	3'	ND	ND	ND	ND	ND	ND	319		
S1-4'	10/11/2024	4'	ND	ND	ND	ND	ND	ND	5800		
S2-Surface	10/11/2024	0'	ND	ND	ND	ND	ND	ND	4990		
S2-1'	10/11/2024	1'	ND	ND	ND	ND	ND	ND	533		
S2-2'	10/11/2024	2'	ND	ND	ND	ND	ND	ND	1070		
S2-3'	10/11/2024	3'	ND	ND	ND	ND	ND	ND	668		
S2-4'	10/11/2024	4'	ND	ND	ND	ND	ND	ND	2470		
S3-Surface	10/11/2024	0'	ND	ND	ND	ND	ND	ND	5710		
S3-1'	10/11/2024	1'	ND	ND	ND	ND	ND	ND	5680		
S3-2'	10/11/2024	2'	ND	ND	ND	108	59.9	167.9	1170		
S3-3'	10/11/2024	3'	ND	ND	ND	ND	ND	ND	535		
S3-4'	10/11/2024	4'	ND	ND	ND	ND	ND	ND	673		
S4-Surface	10/11/2024	0'	ND	ND	ND	ND	ND	ND	4830		
S4-1'	10/11/2024	1'	ND	ND	ND	171	98.1	269.1	15500		
S4-2'	10/11/2024	2'	ND	ND	ND	ND	ND	ND	267		
S4-3'	10/11/2024	3'	ND	ND	ND	ND	ND	ND	611		
S4-4'	10/11/2024	4'	ND	ND	ND	ND	ND	ND	679		
S5-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	5130		
S5-1'	10/12/2024	1'	ND	ND	ND	78.2	ND	78.2	7740		
S5-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	581		
S5-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	583		
S5-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	691		
S6-Surface	10/12/2024	0'	ND	ND	ND	241	136	377	8750		
S6-1'	10/12/2024	1'	ND	ND	ND	339	182	521	6670		
S6-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	1140		
S6-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	1680		
S6-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	427		
S7-Surface	10/12/2024	0'	ND	ND	ND	156	88.1	244.1	9060		
S7-1 <sup>'</sup>	10/12/2024	1'	ND	ND	ND	179	104	283	8970		
S7-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	1110		
S7-3'	10/12/2024	3'	ND	ND	ND	34.9	59.1	94	5650		
S7-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	5700		
S8-Surface	10/12/2024	0'	ND	ND	ND	250	139	389	8680		
S8-1'	10/12/2024	1'	ND	ND	ND	233	136	369	8980		
S8-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	1170		
S8-3 <sup>'</sup>	10/12/2024	3'	ND	ND	ND	29.2	ND	29.2	4360		
S8-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	5660		

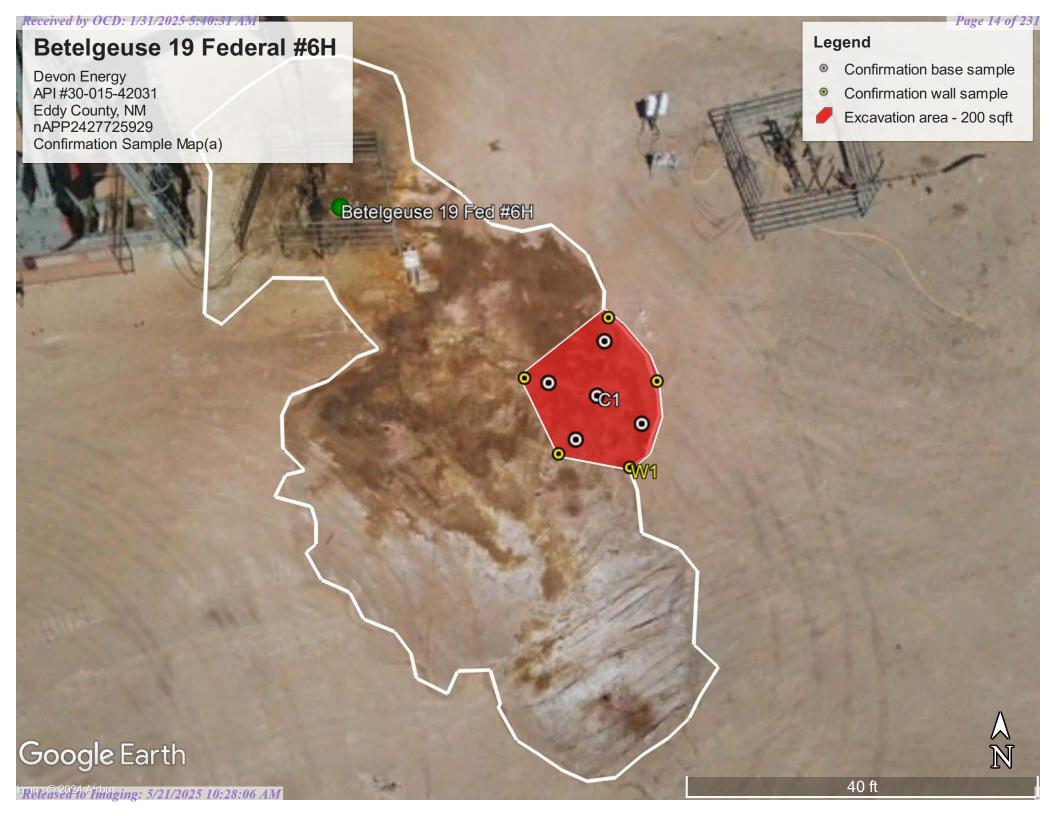
Sample ID	Date	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl ma/ka
		(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H1-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	ND
H1-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
H1-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	ND
H1-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	ND
H1-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	ND
H2-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	ND
H2-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
H2-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	ND
H2-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	ND
H2-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	ND
H3-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	ND
H3-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
H3-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	ND
H3-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	ND
H3-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	ND
H4-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	ND
H4-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
H4-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	ND
H4-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	ND
H4-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	ND
H5-Surface	10/12/2024	0'	ND	ND	ND	ND	ND	ND	ND
H5-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
H5-2'	10/12/2024	2'	ND	ND	ND	ND	ND	ND	ND
H5-3'	10/12/2024	3'	ND	ND	ND	ND	ND	ND	ND
H5-4'	10/12/2024	4'	ND	ND	ND	ND	ND	ND	ND
BG1-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND
BG2-1'	10/12/2024	1'	ND	ND	ND	ND	ND	ND	ND

	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')											
DEVON ENERGY - Betelgeuse 19 Federal #6H - nAPP2427725929												
NM Approved Laboratory Results												
Sample ID  Date  Depth (BGS)  Depth (BGS)  Depth (BGS)  Depth (BGS)  Depth (BGS)  Depth (BGS)  Benzene (BGS)  Benzene (BGS)  Benzene (BGS)  Benzene (BGS)  DRO (MRO)  MRO (MRO)  MRO (MRO)  Mg/kg  Mg/kg  Mg/kg  Mg/kg												
S1-5'	10/23/2024	5'	ND									
S2-5'	10/23/2024	5'	ND									
S3-5'	10/23/2024	5'	ND									
S4-5'	10/23/2024	5'	ND									
S5-5'	10/23/2024	5'	ND									
S6-5'	10/23/2024	5'	ND									
S7-5'	10/23/2024	5'	ND									
S8-5'	10/23/2024	5'	ND									

	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')										
	DEVON ENERGY - Betelgeuse 19 Federal #6H - nAPP2427725929										
	NM Approved Laboratory Results										
Sample ID	Sample ID Date Depth (BGS) Dep										
C1-1.5' 11/4/2024 1.5' ND ND ND 736 434 1170 1590											
W1-1.5' 11/4/2024 1.5' ND ND ND ND ND ND ND 614											

	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')											
	DEVON ENERGY - Betelgeuse 19 Federal #6H - nAPP2427725929											
	NM Approved Laboratory Results											
Sample ID	(BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg											
CS1	1/17/2025	8"	ND	ND	ND	ND	ND	ND	791			
CS2	1/17/2025	8"	ND	ND	ND	ND	ND	ND	396			
CS3	1/17/2025	8"	ND	ND	ND	47.3	ND	47.3	462			
CS4	1/17/2025	8"	ND	ND	ND	ND	ND	ND	813			
CS5	1/17/2025	8"	ND	ND	ND	ND	ND	ND	343			
CS6	1/17/2025	8"	ND	ND	ND	ND	ND	ND	388			
CSW1	1/17/2025	8"	ND	ND	ND	41.6	ND	41.6	766			
CSW2	1/17/2025	8"	ND	ND	ND	25.7	ND	25.7	597			
CSW3	1/17/2025	8"	ND	ND	ND	33.6	ND	33.6	722			
CSW4	1/17/2025	8"	ND	ND	ND	40	ND	40	543			
CSW5	1/17/2025	8"	ND	ND	ND	32.2	ND	32.2	442			
CSW6	1/17/2025	8"	ND	ND	ND	28.4	ND	28.4	393			





# Betelgeuse 19 Fed #6H

Devon Energy API#30-015-42031 Eddy County, NM nAPP2427725929 Confirmation Sample Map(b)

# Legend

- Confirmation base samples
- Confirmation wall samples
- Scraped area 1,132 sqft



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# Appendix A

**Water Surveys** 

**Water Related Maps** 



# 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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth	Depth Water	
CP 01943 POD1		СР	ED	NW	SW	NW	20	19S	31E	603217.4	3612883.9		37	55		
CP 01941 POD1		CP	ED	SW	NE	NE	29	19S	31E	604524.2	3611512.8		1856	55	54	1
CP 01907 POD1		CP	ED	SE	NE	NE	18	19S	31E	603017.2	3614737.1		1896			
<u>CP 01985 POD1</u>		CP	ED	NE	SE	NE	17	19S	31E	604666.5	3614438.3		2131	55		
<u>CP 00357 POD1</u>		CP	ED	SE	SE	NW	24	19S	30E	600667.0	3612631.0 *		2582	630		
<u>CP 00725 POD1</u>		СР	ED	NW	SW	SW	28	19S	31E	604906.0	3610473.0 *		2906	231		
<u>CP 00357 POD2</u>		CP	ED	SE	SW	NW	24	19S	30E	600265.0	3612627.0 *		2983	630		

Average Depth to Water: **54 feet** 

Minimum Depth: **54 feet** 

Maximum Depth: **54 feet** 

**Record Count:** 7

## **Basin/County Search:**

**County: ED** 

## **UTM Filters (in meters):**

**Easting:** 603240.04 **Northing:** 3612854.18

**Radius:** 03000

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.

<sup>\*</sup> UTM location was derived from PLSS - see Help



z	OSE POD NO. (W POD 1 (TW-1		)		WELL TAG ID N N/A	0.		OSE FILE NO(S	S).		
CATIO	WELL OWNER N	AME(S)						PHONE (OPTIO 575-748-183			
AND WELL LOCATION	WELL OWNER M 6488 7 River		ADDRESS					CITY Artesia		STATE NM 88210	ZIP
RAL AND V	WELL LOCATION (FROM GPS)		TTUDE	32 103	MINUTES 38	SECON 55.5	2 <sub>N</sub>	1 1 1 1 1 1 1 1 1	REQUIRED: ONE TEN'	TH OF A SECOND	
1. GENERAL		ELATIN	G WELL LOCATION TO T19S R31E NMPM		ESS AND COMMO	ON LANDMA	RKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	IERE AVAILABLE	
	LICENSE NO. 1249		NAME OF LICENSED		ackie D. Atkir	ıs			NAME OF WELL DR Atkins Eng	ILLING COMPANY gineering Associates	s, Inc.
	4/6/2023		DRILLING ENDED 4/9/2023		MPLETED WELL or Well Mate			LE DEPTH (FT) ±55	DEPTH WATER FIR:	ST ENCOUNTERED (I	FT)
N	COMPLETED W	ELL IS:	ARTESIAN	Ø DRY HOLI	E SHALL	OW (UNCO)	NFINED)		WATER LEVEL PLETED WELL N	/ ^	IC MEASUREI 18/23
RMATIC	DRILLING FLUI		AIR  ROTARY   HAM!	MUD MER CABL	ADDIT	IVES – SPEC THER – SPEC		Hollow Stem	Auger CHECK	HERE IF PITLESS AI	DAPTER IS
CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	(include e	MATERIAL AN GRADE ach casing strin ections of scree	g, and	CON	ASING NECTION TYPE bling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
ING & CA	0	55	±6.25		Soil Boring	,	(and conp		3-		-
2. DRILLING &											
AL.	DEPTH (fee	t bgl)	BORE HOLE DIAM, (inches)		ST ANNULAR VEL PACK SIZ				AMOUNT (cubic feet)	20,000,000	OD OF EMENT
3. ANNULAR MATERIAL	TROM	10				N/A					
	OSE INTERNA	L USE						WR-2	0 WELL RECORD	& LOG (Version 0	1/28/2022)
FILE	NO. CP.	- 10	143 31E, 20	13	POD	10.		WELL TAG I	4.0	394 PAG	GE 1 OF 2

FROM TO (feet) INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES BEARING? WATER-FROM TO (feet) (attach supplemental sheets to fully describe all units) (YES / NO) BEARING		DEPTH (	feet bgl)	1520 100	co	I OR AN	D TVPE OF I	MATERIALI	ENCOLINT	FRED -		WA	TED	ESTIMATED
A   25   21   Calicle, with very fine grained sand. Tan off white   Y		FROM	то		INCLUD	E WATE	R-BEARING	CAVITIES	OR FRACT	TURE ZONE	S	BEAH	RING?	YIELD FOR WATER- BEARING ZONES (gpm)
25 50 25 Sand, fine-grained, poorly graded, consolidated, Brown  9		0	4	4	Sa	and, fine-g	rained, poorly	graded, unco	onsolidated	Brown		Y	✓ N	
SO 55 5 Sand fine-grained, poorly graded, unconsolidated, Tan Y N N Y N N Y N N Y N N Y N N Y N N Y N N Y N		4	25	21		Caliche,	with very fine	- grained san	d, Tan off v	white		Y	✓ N	
Y N		25	50	25	S	and, fine-g	grained, poorl	y graded, con	solidated,	Brown		Y	✓ N	
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.    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.    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.    WELL TEST   START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND A TABLE SHOWING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND A TABLE SHOWING DISCHARGE METHOD, START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND A TABLE SHOWING DISCHARGE METHOD, START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND TABLE SHOWING DISCHARGE METHOD, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, END TIME, AND THE PERIOD OF WELL DISTING.    WELL TEST   START TIME, AND THE TESTING PERIOD.    WELL TEST   START TIME, AND THE TESTI		50	55	5	S	and,fine-	grained, poorl	y graded, unc	consolidate	d, Tan		Y	√ N	
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# **OSE POD Location Map**

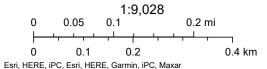


10/9/2024, 5:19:04 PM

GIS WATERS PODs OSE District Boundary Connector

Plugged NHD Flowlines

Artificial Path



Online web user



USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

**USGS Water Resources** 

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

#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- How are we doing? We want to hear from you. Take our quick <u>survey</u> to tell us what you think.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

# Search Results -- 1 sites found

site\_no list =

• 323730103524701

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

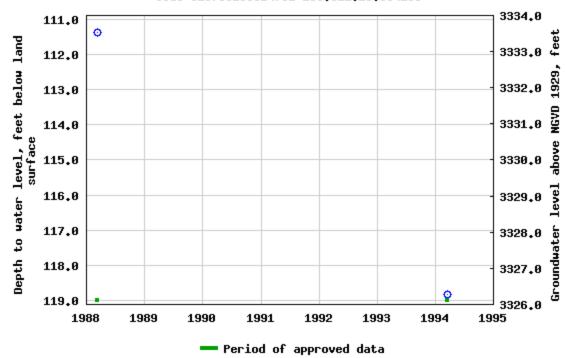
## USGS 323730103524701 19S.31E.28.334133

Available data for this site	Groundwater:	Field measurements	<b>✓</b> GO	
Eddy County, New Mexico				
Hydrologic Unit Code 1306	0011			
Latitude 32°37'30", Longit	tude 103°5	2'47" NAD27		
Land-surface elevation 3,4	45 feet abo	ve NGVD29		
The depth of the well is 20	4.00 feet be	elow land surface		
This well is completed in th	ne Other aq	uifers (N9999OTh	HER) national	aquifer.
This well is completed in th	ie Dockum	Group (231DCKM	I) local aquife	r.

**Output formats** 

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

### USGS 323730103524701 195,31E,28,334133



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility

FOIA

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

**Title: Groundwater for USA: Water Levels** 

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

Page Contact Information: <u>USGS Water Data Support Team</u>

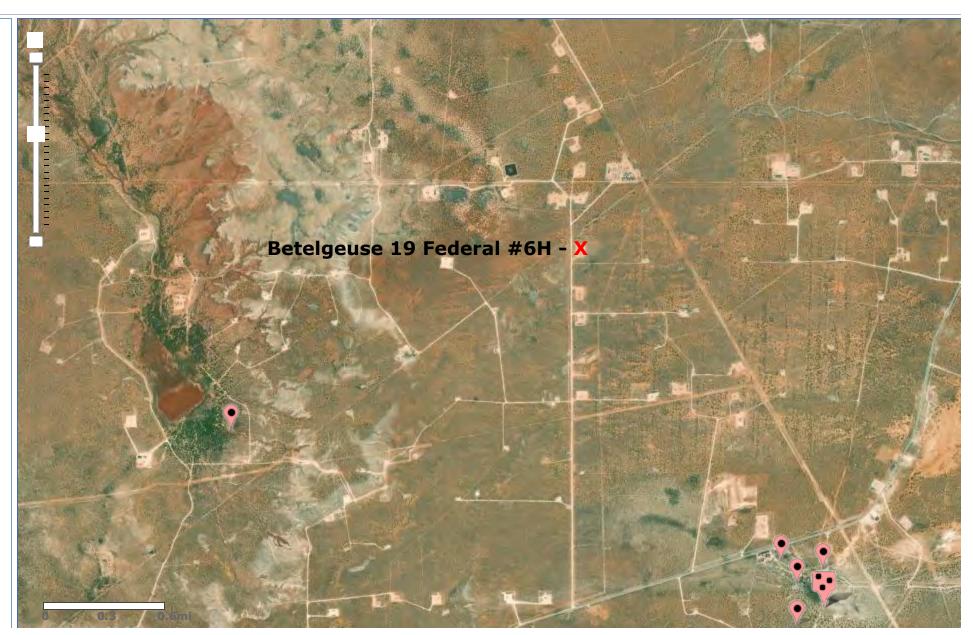
Page Last Modified: 2024-10-09 18:26:22 EDT

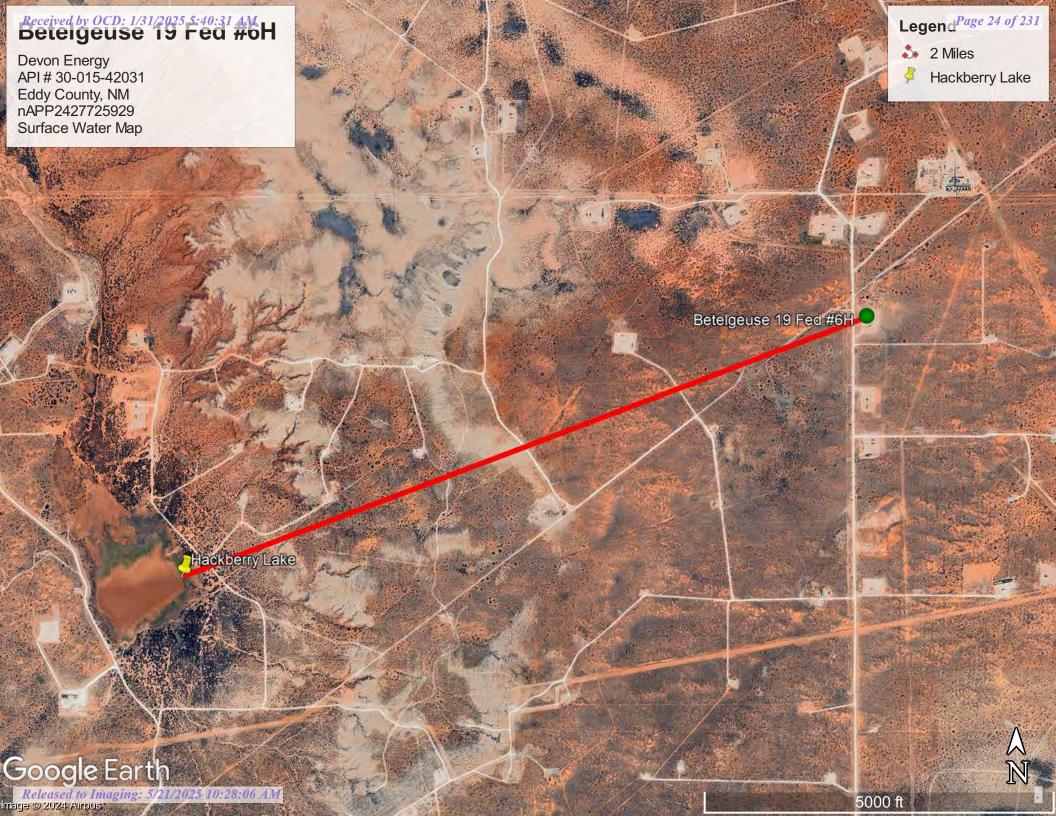
0.63 0.47 nadww01





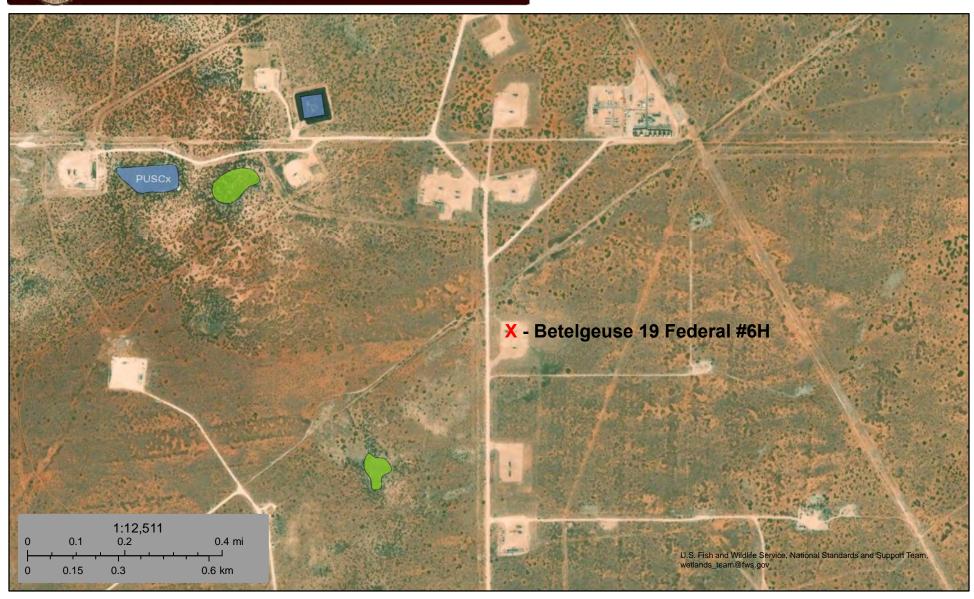
**National Water Information System: Mapper** 







# Wetlands Map



October 9, 2024

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

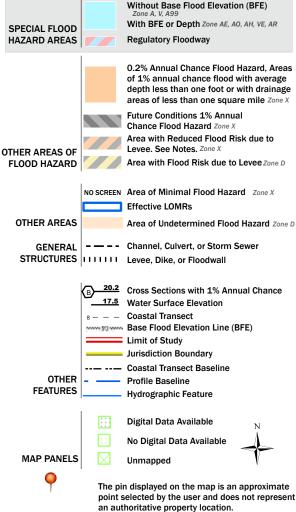
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# National Flood Hazard Layer FIRMette





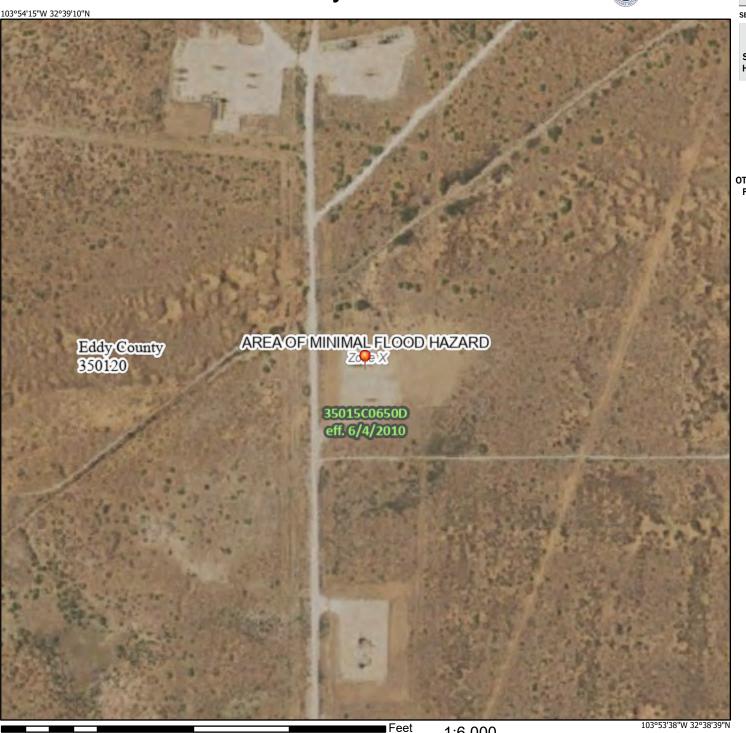
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



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 10/9/2024 at 6:29 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.



2,000



# Appendix B

**Soil Survey** 

Soil Map

**Geologic Unit Map** 

# **Eddy Area, New Mexico**

# KM—Kermit-Berino fine sands, 0 to 3 percent slopes

### **Map Unit Setting**

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

# **Description of Kermit**

### Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

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: 1.0

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

## Interpretive groups

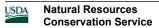
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No



## **Description of Berino**

#### Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

### **Typical profile**

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

#### **Properties and qualities**

Slope: 0 to 3 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: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

#### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### **Minor Components**

#### Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024



#### MAP LEGEND

â

00

Δ

**Water Features** 

Transportation

---

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

#### **Special Point Features**

Blowout

Borrow Pit

Clay Spot

Closed Depression

✓ Gravel Pit

. Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

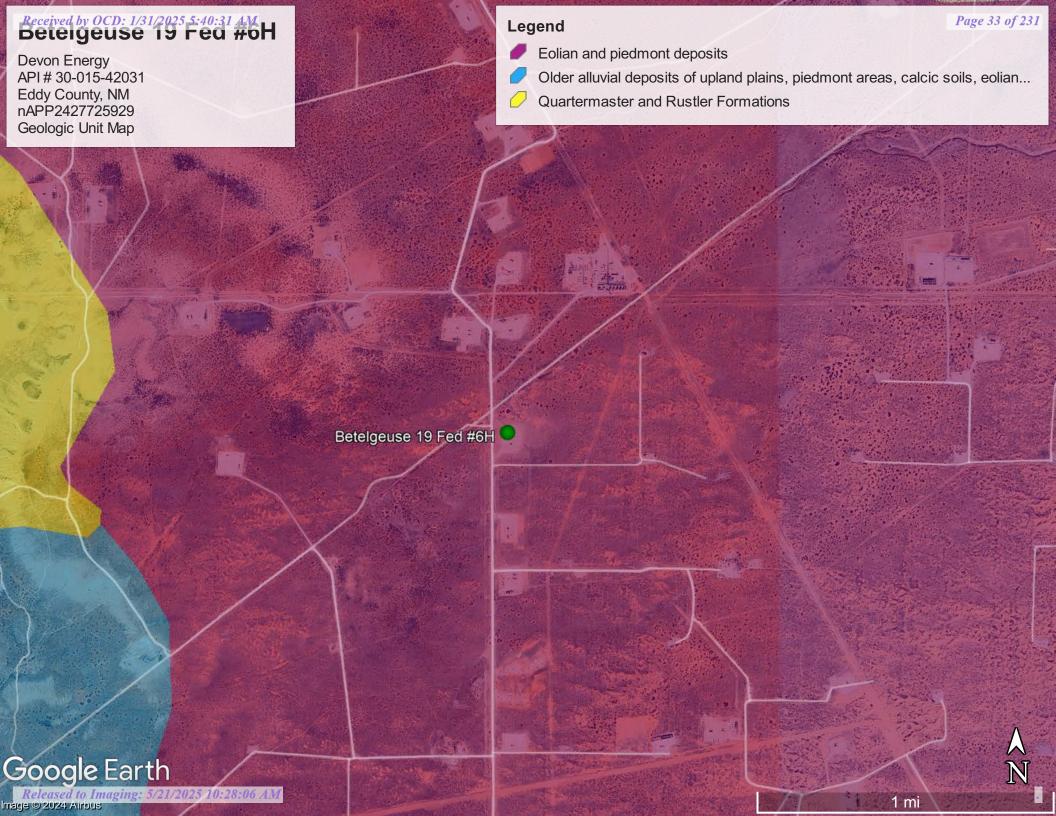
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit-Berino fine sands, 0 to 3 percent slopes	2.6	100.0%
Totals for Area of Interest		2.6	100.0%





# Appendix C

**48-Hour Notifications** 

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

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

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

QUESTIONS

Action 391388

### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	391388
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2427725929	
Incident Name	NAPP2427725929 BETELGEUSE 19 FEDERAL #006H @ 30-015-42031	
Incident Type	Oil Release	
Incident Status	Initial C-141 Approved	
Incident Well	[30-015-42031] BETELGEUSE 19 FEDERAL #006H	

Location of Release Source		
Site Name	BETELGEUSE 19 FEDERAL #006H	
Date Release Discovered	10/02/2024	
Surface Owner	Federal	

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,488
What is the estimated number of samples that will be gathered	67
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/11/2024
Time sampling will commence	05:00 PM
Please provide any information necessary for observers to contact samplers	Maris Loya (575) 416-0639
Please provide any information necessary for navigation to sampling site	From the intersection of Shugart Road and Lusk Plant Road in Eddy county, travel south/southwest on Shugart Rd for 4.4 miles, turn north on lease road for 1.75 miles, turn northwest into location.

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 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 391388

### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	391388
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/9/2024

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

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

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

QUESTIONS

Action 397951

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	397951
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2427725929
Incident Name	NAPP2427725929 BETELGEUSE 19 FEDERAL #006H @ 30-015-42031
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42031] BETELGEUSE 19 FEDERAL #006H

Location of Release Source	
Site Name	BETELGEUSE 19 FEDERAL #006H
Date Release Discovered	10/02/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	11:30 AM
Please provide any information necessary for observers to contact samplers	Maris Loya (575) 416-0639
Please provide any information necessary for navigation to sampling site	32.648543, -103.899147

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

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 397951

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	397951
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Creat By	d Condition	Condition Date
jrale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/31/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 421146

#### **QUESTIONS**

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	421146
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2427725929
Incident Name	NAPP2427725929 BETELGEUSE 19 FEDERAL #006H @ 30-015-42031
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-42031] BETELGEUSE 19 FEDERAL #006H

Location of Release Source	
Site Name	BETELGEUSE 19 FEDERAL #006H
Date Release Discovered	10/02/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	2,295	
What is the estimated number of samples that will be gathered	22	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025	
Time sampling will commence	07:30 AM	
Please provide any information necessary for observers to contact samplers	Maris Loya (575) 416-0639	
Please provide any information necessary for navigation to sampling site	32.648543, -103.899147	

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 421146

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	421146
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	d Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/15/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 421283

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	421283
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	tes		
Incident ID (n#)	nAPP2427725929		
Incident Name	NAPP2427725929 BETELGEUSE 19 FEDERAL #006H @ 30-015-42031		
Incident Type	Oil Release		
Incident Status	Remediation Plan Approved		
Incident Well	[30-015-42031] BETELGEUSE 19 FEDERAL #006H		

Location of Release Source	
Site Name	BETELGEUSE 19 FEDERAL #006H
Date Release Discovered	10/02/2024
Surface Owner	Federal

Sampling Event General Information					
Please answer all the questions in this group.					
What is the sampling surface area in square feet	1,132				
What is the estimated number of samples that will be gathered	12				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025				
Time sampling will commence	07:30 AM				
Please provide any information necessary for observers to contact samplers	Maris Loya (575) 416-0639				
Please provide any information necessary for navigation to sampling site	32.648543, -103.899147				

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 421283

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	421283
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Crea By	ated		Condition Date
jra	ley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/15/2025



# Appendix D

**Photographic Documentation** 





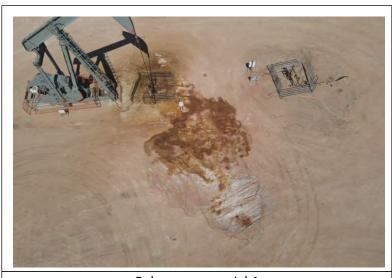
Release area aerial 1



Release area aerial 2



Release area aerial 3



Release area aerial 4



Release area aerial 5



Assessment 1









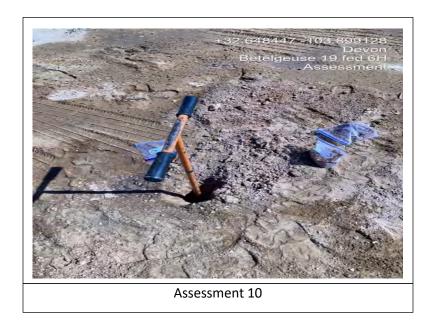
Assessment 5













Assessment 11



Assessment 13



Flagging/Marking 1



Flagging/Marking 2



Flagging/Marking 3





Excavation 2

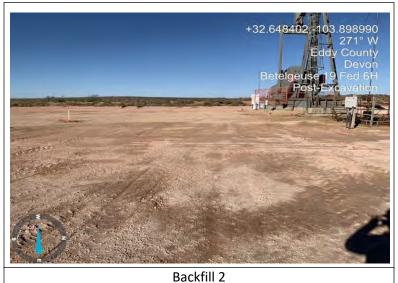


Excavation 3



Released to Imaging: 5/21/2025 10:28:06 AM













































# Appendix E

**Laboratory Reports** 

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Federal #6H

Work Order: E410159

Job Number: 01058-0007

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/22/24

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

Date Reported: 10/22/24

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Federal #6H

Workorder: E410159

Date Received: 10/16/2024 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 8:00:00AM, under the Project Name: Betelgeuse 19 Federal #6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Federal #6H 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 reguarding 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

Field Offices:

**Southern New Mexico Area** 

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Donoutode
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/24 12:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-Surface	E410159-01A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S1-1'	E410159-02A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S1-2'	E410159-03A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S1-3'	E410159-04A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S1-4'	E410159-05A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S2-Surface	E410159-06A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S2-1'	E410159-07A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S2-2'	E410159-08A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-3'	E410159-09A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S2-4'	E410159-10A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-Surface	E410159-11A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-1'	E410159-12A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-2'	E410159-13A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-3'	E410159-14A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S3-4'	E410159-15A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S4-Surface	E410159-16A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S4-1'	E410159-17A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S4-2'	E410159-18A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S4-3'	E410159-19A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.
S4-4'	E410159-20A	Soil	10/11/24	10/16/24	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S1-Surface E410159-01

		E410159-01				
Audia	Result	Reporting Limit	Dilution	. D	A	Notes
Analyte	Resuit	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
foluene	ND	0.0250	1	10/16/24	10/20/24	
-Xylene	ND	0.0250	1	10/16/24	10/20/24	
,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
urrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	10/16/24	10/20/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AF		Batch: 2442109
iesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
'urrogate: n-Nonane		83.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442115
Chloride	4630	40.0	2	10/16/24	10/18/24	



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Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S1-1' E410159-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		89.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442115
Chloride	4470	40.0	2	10/16/24	10/18/24	



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#### S1-2' E410159-03

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: CG		Batch: 2442100
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0500	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
	93.2 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: CG		Batch: 2442100
ND	20.0	1	10/16/24	10/20/24	
	93.7 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: AF		Batch: 2442109
37.2	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	93.7 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2442115
1310	20.0	1	10/16/24	10/18/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg 37.2 ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0           93.7 %         mg/kg           mg/kg         mg/kg           37.2         25.0           ND         50.0           93.7 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           93.2 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           93.7 %         70-130           mg/kg         mg/kg         Anal           37.2         25.0         1           ND         50.0         1           93.7 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: CG           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0500         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           mg/kg         mg/kg         Analyst: CG           ND         20.0         1         10/16/24           mg/kg         mg/kg         Analyst: AF           37.2         25.0         1         10/16/24           ND         50.0         1         10/16/24           MD         50.0         1         10/16/24           mg/kg         mg/kg         Analyst: AF         37.2         25.0         1         10/16/24           mg/kg         mg/kg         Analyst: DT         4         10/16/24         4	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: CG           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0500         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: CG           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: CG         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: AF         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: AF         1         10/16/24         10/18/24           ND         50.0         1         10/16/24         10/18/24           ND         50.0         1         10/16/24         10/18/24



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### S1-3'

		E410159-04				
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		86.4 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442115
Chloride	319	20.0	1	10/16/24	10/18/24	



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#### S1-4'

#### E410159-05

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		92.0 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442115
Chloride	5800	100	5	10/16/24	10/18/24	



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#### S2-Surface E410159-06

		2.1010, 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
oluene	ND	0.0250	1	10/16/24	10/20/24	
-Xylene	ND	0.0250	1	10/16/24	10/20/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		86.8 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442115
Chloride	4990	40.0	2	10/16/24	10/18/24	



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#### S2-1'

#### E410159-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		98.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2442115
Chloride	533	20.0	1	10/16/24	10/18/24	



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#### S2-2'

#### E410159-08

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		98.4 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442115
Chloride	1070	20.0	1	10/16/24	10/18/24	



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#### S3-3' E410159-09

	E410137 07				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442100
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0500	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
	93.6 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	mg/kg Analyst: CG			Batch: 2442100
ND	20.0	1	10/16/24	10/20/24	
	92.7 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442109
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	95.2 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442115
668	20.0	1	10/16/24	10/18/24	
	mg/kg ND Mg/kg ND mg/kg	Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           93.6 %         mg/kg           Mg/kg         mg/kg           ND         20.0           92.7 %         mg/kg           MD         25.0           ND         50.0           95.2 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           93.6 %         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           92.7 %         70-130         mg/kg           mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           95.2 %         50-200           mg/kg         mg/kg         Ana	Reporting           Result         Limit         Dilution         Prepared           mg/kg         MS         Analyst: CG           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0500         1         10/16/24           ND         0.0250         1         10/16/24           MD         0.0250         1         10/16/24           mg/kg         mg/kg         Analyst: CG           ND         20.0         1         10/16/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         10/16/24           ND         50.0         1         10/16/24           ND         50.0         1         10/16/24           MD         50.0         1         10/16/24           Mg/kg         Mg/kg         Analyst: AF	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: CG           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0500         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: CG           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         10/16/24         10/18/24           ND         25.0         1         10/16/24         10/18/24           ND         50.0         1         10/16/24         10/18/24           ND         50.0         1         10/16/24         10/18/24           ND         50.0         1         10/16/24



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#### S2-4'

#### E410159-10

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		92.8 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2442115
Chloride	5470	100	5	10/16/24	10/18/24	



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#### S3-Surface E410159-11

/24 10/20/24 /24 10/20/24	Notes Batch: 2442100
	Batch: 2442100
24 10/20/24	
/24 10/20/24	
/24 10/20/24	
/24 10/20/24	
/24 10/20/24	
/24 10/20/24	
	Batch: 2442100
/24 10/20/24	
/24 10/20/24	
	Batch: 2442109
/24 10/18/24	
/24 10/18/24	
/24 10/18/24	
	Batch: 2442115
/24 10/19/24	·
	24 10/20/24 24 10/20/24 24 10/20/24 24 10/20/24 24 10/20/24 24 10/18/24 24 10/18/24



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S3-1'

E410159-12						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		92.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2442115
Chloride	5680	40.0	2	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S3-2' E410159-13

		2110107 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		87.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	108	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	59.9	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		84.1 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2442115
Chloride	1170	20.0	1	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S3-3' E410159-14

Reporting Limit	Dilution	Prepared		
		ricparcu	Analyzed	Notes
mg/kg	Analyst:	CG		Batch: 2442100
0.0250	1	10/16/24	10/20/24	
0.0250	1	10/16/24	10/20/24	
0.0250	1	10/16/24	10/20/24	
0.0250	1	10/16/24	10/20/24	
0.0500	1	10/16/24	10/20/24	
0.0250	1	10/16/24	10/20/24	
5 %	70-130	10/16/24	10/20/24	
mg/kg	Analyst:	CG		Batch: 2442100
20.0	1	10/16/24	10/20/24	
6 %	70-130	10/16/24	10/20/24	
mg/kg	Analyst:	AF		Batch: 2442109
25.0	1	10/16/24	10/17/24	
50.0	1	10/16/24	10/17/24	
9 %	50-200	10/16/24	10/17/24	
mg/kg	Analyst:	DT		Batch: 2442115
20.0	1	10/16/24	10/18/24	
	0.0250 0.0250 0.0250 0.0250 0.0250 0.0500 0.0250 5 % mg/kg 20.0 6 % mg/kg 25.0 50.0	0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0500 1 0.0250 1 5 % 70-130  mg/kg Analyst: 20.0 1 6 % 70-130  mg/kg Analyst: 25.0 1 50.0 1 9 % 50-200  mg/kg Analyst:	0.0250	0.0250 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 0.0500 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 0.0250 1 10/16/24 10/20/24 5 % 70-130 10/16/24 10/20/24  mg/kg Analyst: CG  20.0 1 10/16/24 10/20/24  mg/kg Analyst: AF  25.0 1 10/16/24 10/17/24 5 50.0 1 10/16/24 10/17/24  9 % 50-200 10/16/24 10/17/24  mg/kg Analyst: DT



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S3-4'

E41	Λ1	50	15
L41	UΙ	<b>3</b> 9.	-12

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		80.9 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2442115
Chloride	673	20.0	1	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S4-Surface E410159-16

		L-110137 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
oluene	ND	0.0250	1	10/16/24	10/20/24	
-Xylene	ND	0.0250	1	10/16/24	10/20/24	
,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		80.3 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442115
Chloride	4830	40.0	2	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S4-1'

E41	Λ1	50	17
L41	UΙ	<b>3</b> 9.	-1/

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	171	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	98.1	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		83.3 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442115
	15500	400	20	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S4-2'

#### E410159-18

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		80.0 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2442115
Chloride	267	20.0	1	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

### S4-3'

E410159-19								
		Reporting						
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442100		
Benzene	ND	0.0250	1	10/16/24	10/20/24			
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24			
Toluene	ND	0.0250	1	10/16/24	10/20/24			
o-Xylene	ND	0.0250	1	10/16/24	10/20/24			
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24			
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24			
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	10/16/24	10/20/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442100		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	10/16/24	10/20/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2442109		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24			
Surrogate: n-Nonane		89.5 %	50-200	10/16/24	10/17/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2442115		
Chloride	611	20.0	1	10/16/24	10/18/24			



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

#### S4-4'

#### E410159-20

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2442100
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2442100
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		78.8 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442115
Chloride	679	20.0	1	10/16/24	10/18/24	<del></del>



### **QC Summary Data**

		QC D	W 1 1 1 1 1 1 1	ary Dat	а						
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	(	Betelgeuse 19 I 01058-0007 Tom Bynum	Federal #6H			10/2	<b>Reported:</b> 22/2024 12:21:31PM		
		Volatile O	rganics	by EPA 802	21B				Analyst: CG		
Analyte		Reporting Limit	Spike	Source Result	D.	Rec	RPD	RPD Limit			
	Result mg/kg	mg/kg	Level mg/kg	mg/kg	Rec %	Limits %	%	%	Notes		
Blank (2442100-BLK1)						Prepared: 10/16/24 Analyzed: 10/20/24					
Benzene	ND	0.0250					1		<u>,                                      </u>		
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	7.27		8.00		90.8	70-130					
LCS (2442100-BS1)							Prepared: 10	0/16/24 Anal	yzed: 10/20/24		
Benzene	5.15	0.0250	5.00		103	70-130					
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130					
Toluene	5.10	0.0250	5.00		102	70-130					
o-Xylene	4.99	0.0250	5.00		99.8	70-130					
p,m-Xylene	10.1	0.0500	10.0		101	70-130					
Total Xylenes	15.1	0.0250	15.0		101	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130					
Matrix Spike (2442100-MS1)				Source:	E410159-0	4	Prepared: 10	0/16/24 Anal	lyzed: 10/20/24		
Benzene	5.05	0.0250	5.00	ND	101	54-133					
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133					
Toluene	5.00	0.0250	5.00	ND	100	61-130					
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131					
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131					
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131					
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		90.9	70-130					
Matrix Spike Dup (2442100-MSD1)				Source:	E410159-0	4	Prepared: 10	0/16/24 Anal	yzed: 10/20/24		
Benzene	5.09	0.0250	5.00	ND	102	54-133	0.806	20			
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133	0.0965	20			
Toluene	5.03	0.0250	5.00	ND	101	61-130	0.558	20			
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	0.0932	20			
p,m-Xylene	9.99	0.0500	10.0	ND	99.8	63-131	0.0851	20			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131	0.0878	20			

8.00

7.34

70-130



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

### **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum10/22/2024 12:21:31PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				10	D/22/2024 12:21:31PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2442100-BLK1)							Prepared: 1	0/16/24 An	alyzed: 10/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			
LCS (2442100-BS2)							Prepared: 1	0/16/24 An	alyzed: 10/20/24
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			
Matrix Spike (2442100-MS2)				Source:	E410159-	04	Prepared: 1	0/16/24 An	alyzed: 10/20/24
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
Matrix Spike Dup (2442100-MSD2)				Source:	E410159-	04	Prepared: 1	0/16/24 An	alyzed: 10/20/24
Gasoline Range Organics (C6-C10)	40.6	20.0	50.0	ND	81.2	70-130	0.852	20	

8.00

7.53

94.1

70-130

# **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	•
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 12:21:31PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				10	0/22/2024 12:21:31P
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442109-BLK1)							Prepared: 1	0/16/24 An	alyzed: 10/17/24
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	40.8		50.0		81.7	50-200			
CS (2442109-BS1)							Prepared: 1	0/16/24 An	alyzed: 10/17/24
riesel Range Organics (C10-C28)	244	25.0	250		97.6	38-132			
urrogate: n-Nonane	43.7		50.0		87.3	50-200			
Matrix Spike (2442109-MS1)				Source:	E410159-	19	Prepared: 1	0/16/24 An	alyzed: 10/17/24
riesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132			
urrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike Dup (2442109-MSD1)				Source:	E410159-	19	Prepared: 1	0/16/24 An	alyzed: 10/17/24
tiesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132	6.31	20	
urrogate: n-Nonane	42.9		50.0		85.8	50-200			

### **QC Summary Data**

Pima Environmental Services-Carlsback	I	Project Name: Project Number:		Betelgeuse 19 F 01058-0007	ederal #6F	]			Reported:
Plains TX, 79355-0247		Project Manager:		Tom Bynum					10/22/2024 12:21:31PM
		Anions	by EPA	300.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442115-BLK1)							Prepared:	10/16/24	Analyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442115-BS1)							Prepared:	10/16/24	Analyzed: 10/18/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2442115-MS1)				Source:	E410159-0	)9	Prepared:	10/16/24	Analyzed: 10/18/24
Chloride	927	20.0	250	668	104	80-120			
Matrix Spike Dup (2442115-MSD1)				Source:	E410159-0	)9	Prepared:	10/16/24	Analyzed: 10/18/24
Chloride	963	20.0	250	668	118	80-120	3.80	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:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/24 12:21

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



**Project Information** 

Client: P	ima Env	ironmen	tal Ser	rvices	1	Bill To				Li	ab Us	e Onl	v .				TA	\T	EPA P	rogram
Project:	Betelge	euse 19 l	<u>Federa</u>			Attention: Devon Energy		Lab	WO#	ŧ		Job N	luml		1D	2D	3D	Standard		SDWA
Project M						Address:		E4	101	59		010	<u> 58-</u>	<u>-</u> 2007				X		
Address:	5614 N	. Lovingt	on Hw	<u>/y</u>	æ	City, State, Zip						Analys	is an	nd Metho	d				1-3	RCRA
City, State	e, Zip H	obbs. NN	M. 882	40		Phone:														
Phone: 8						Email:		5	8015	ĺ									State	
Email: t	om@pii	naoil.cor	<u>n</u>			D: D : 4 // 4 270 (-ADD0407	705000	&		=		_	<u> </u>		5			NM C	O UT AZ	TX
Report du	ue by:					Pima Project # 1-379 (nAPP2427	725929)	្ត្ល	စ္က	8	826	g	Š.		Σ	ř		х		
Time Sampled	Date Sampled	Matrix	No. of Containe		•		Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	ВСООС			Remarks	
5:00	VIIIV Z.A	S	1	S1-Surfac	е										х					
5:16				S1-1'			2						,							
5:23		_		S1-2'			3													
5:29		<u> </u>		S1-3'			4													
5:31				S1-4'			5													
5:38				S2-Surfac	ce		6								Ш					
5:46				S2-1'			7								Ш					
5:51				S2-2'			8													
5:59				S2-3 <sup>'</sup>			9													
@:00				S2-4'			10													
Addition	al Instru	tions:	Wo	ork Order/Billir	ng: 21	421826														
		· ·		enticity of this sampled may be grounds for				location	on,						above	0 but le	ss than 6	eived on ice the c i °C on subsequen		ed or received
Relinquishe	ime +	tan	l 9	10/15/24 11	ال: حُ	Received by: (Signature)  Michelle Gonzales	Date 10-15-2	14	Time	160		Recei	ived	on ice:		ab U )/ N	se On	ly		
Relinquishe	helle 1	7 AMRA	ا معلا		ne Lle15		Date 16.15.	24	Time	,15	5	<u>T1</u>			<u>T2</u>			<u>T3</u>		
Relation	100	7	,,	o. 15.24 7	2.3c	Received by: (Signature)	Date 16-	ત્રપ	Time	800	2	AVG	Tem	p °c <b>L</b>				- 114 - 124 - 124 - 124		
Sample Matr	ix: S - Soil, S	d - Solid, Sg -	Sludge, A	- Aqueous, O - Othe	·		Container	Туре	:: g - €	glass,	<b>p</b> - p	oly/pla	stic,	ag - amb	er gla	ss, v -	VOA			
Note: Samp	oles are dis	carded 30 d	lays after	r results are report	ed unles	s other arrangements are made. Hazardous	samples will	be ret	turned	to cli	ent or	dispos	ed of	at the clie				eport for the	nalysis of the	above
samples is	applicable	only to thos	e sample	es received by the I	aborato	ry with this COC. The liability of the laborator	is limited to	the a	moun	nt paid	for o	n the re	port	•						

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Project Information
Client: Pima Envir
Project: Betelgeu
Project Manager: 7

Page	2	of	7

Client: Pima Envi	ronment	al Se	ervice	es		Bill To			1		L	ab Us	e Oni	v					T/	λT		EPA Pi	ogram
Project: Betelge			ral #6	6H	1	ention: Devon Ener	gy			WOŧ			Job N				1D	2D	3D	Sta	andard	CWA	SDWA
Project Manager:					1	dress:			E٠	10	159		0105								Χ		
Address: 5614 N.	_			<del></del>		, State, Zip						,	Analys	sis ar	nd Mei	thod							RCRA
City, State, Zip Ho		<u> 1. 88</u>	240	<del></del>	- 1	one:	_															<u> </u>	
Phone: 806-782-					<u>En</u>	nail:			55	015												State	
Email: tom@pin Report due by:	1aoii.cor	<u> </u>		<del></del>	l Pi	ma Project # 1-379 (	nAPP2427	725929)	Š	<u>۾</u>	12	8	유	0.00			Z				NM CO	UT AZ	TX
<del></del>		1	. 1					I	8	8	8	8	8	de 3				1			Х ]		
Time Date Sampled Sampled	Matrix	No. Conta		Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			верос	Верос				Remarks	
6:14 10111	S	1		S3-Surface				11									X						
6:17				S3-1'				اي															
6:23				S3-2'				13															
6:29				S3-3'		<del></del>		14				!											
6:33				S3-4'				15															
6:38				S4-Surface				16															
6:42				S4-1'				17															
6:48				S4-2'				18															
6:52				S4-3'				19															
6:59				S4-4'				20															
Additional Instruct	tions:	W	ork (	Order/Billing:	21421	826																	
I, (field sampler), attest to date or time of collection	-			•		that tampering with or intention Sampled by:	nally mislabellin	g the sample	location	on,											on ice the day t subsequent da	hey are sample ys.	d or received
Relinquished by: (Signa	ture)		Date /	524 Time	10	Received by: (Signature)	nalec	Date 1015.2	y	Time	410		Rece	ived	on ic	e:		ab U:	se On	ly	-		
Relinquished by: (Signa	ture)		Date	1524 Time	215	Received by (Signature)	y	Date /0.15.1		Time			T1	,,,,,,,		<b>-</b> .	T2				<b>T3</b>		
Religiguished by: (Signa			Date	15.24 70	230	Received by: (Signature)		Date 10-16-		Time	800	<u> </u>	AVG	Tem	p °C_	- 4							
Sample Matrix: S - Soil, Sd	- Solid, Sg -							Container	Туре			<b>p</b> - p	oly/pla	stic,	ag - a	mbe	r glas	ss, v -	VOA				***************************************
		-		•		er arrangements are made. th this COC. The liability of t		amples will	be ret	turnec	to cli	ent or	dispos	ed of	at the		_			eport	for the ana	lysis of the	above
											• • •	_											



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Printed: 10/16/2024 9:19:46AM

#### **Envirotech Analytical Laboratory**

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.

	ntal Services-Carlsbad I	Date Received:	10/16/24	08:00	Work Order II	D: E410159
Phone: (575) 631-6977	I	Date Logged In:	10/15/24	16:33	Logged In By	Noe Soto
Email: tom@pimaoil.com	n I	Oue Date:	10/22/24	17:00 (4 day TAT)		
Chain of Custody (COC)	_					
1. Does the sample ID mat	ch the COC?		Yes			
2. Does the number of sam	ples per sampling site location match	n the COC	Yes			
<ol><li>Were samples dropped of</li></ol>	off by client or carrier?		Yes	Carrier: <u>C</u>	<u>ourrier</u>	
4. Was the COC complete,	i.e., signatures, dates/times, requeste	ed analyses?	Yes			
• •	ed within holding time? uch as pH which should be conducted in ti d time, are not included in this disucssion	•	Yes		<u>Comm</u>	ents/Resolution
Sample Turn Around Tin	*	-		[		
_	andard TAT, or Expedited TAT?		Yes		Sampled by is missin	g on COC by client.
Sample Cooler	•				Project Betelgeuse 19	Federal 6H has been
7. Was a sample cooler rec	eived?		Yes		separated into multip	
8. If yes, was cooler receiv			Yes		-	•
9. Was the sample(s) receiv	ved intact, i.e., not broken?		Yes		sample volume, WOs	ait
10. Were custody/security			No		E410159-E410161.	
11. If yes, were custody/se	•		NA			
Note: Thermal prominutes of sampli	on ice? If yes, the recorded temp is 4°C, i.eservation is not required, if samples are ring It the temperature. Actual sample to	received w/i 15	Yes			
	. the temperature. Themai sample to	рогание. <u>т С</u>	<u> -</u>			
Sample Container  14. Are aqueous VOC sam	nles present?		No			
15. Are VOC samples colle			NA			
<del>-</del>	han 6-8 mm (pea sized or less)?		NA			
=	included for VOC analyses?		NA			
= : : :	collected in the correct containers?		Yes			
<del>-</del>	e/weight or number of sample container	rs collected?	Yes			
Field Label	o mergan or manneer or sumpre commune		100			
	ls filled out with the minimum inform	nation:				
Sample ID?			Yes			
Date/Time Collecte	ed?		Yes	L		
Collectors name?			No			
Sample Preservation						
	labels indicate the samples were pres	served?	No			
22. Are sample(s) correctly		. 1.0	NA			
•	ed and/or requested for dissolved me	tais?	No			
Multiphase Sample Matr						
-	more than one phase, i.e., multiphase		No			
27. If yes, does the COC sp	pecify which phase(s) is to be analyz	ed?	NA			
Subcontract Laboratory		?	No			
Subcontract Laboratory 28. Are samples required to	o get sent to a subcontract laboratory		TA.T.A.	Subcontract Lab	. NI A	
28. Are samples required to	o get sent to a subcontract laboratory tratory specified by the client and if s	o who?	NA	Subcontract Lab	: NA	

Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

#### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Federal #6H

Work Order: E410160

Job Number: 01058-0007

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/23/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

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

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

Date Reported: 10/23/24

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Federal #6H

Workorder: E410160

Date Received: 10/16/2024 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 8:00:00AM, under the Project Name: Betelgeuse 19 Federal #6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Federal #6H 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Donoutoda
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/24 11:06

Client Sample ID	Lab Sample ID M	<b>Aatrix</b>	Sampled	Received	Container
S5-Surface	E410160-01A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S5-1'	E410160-02A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S5-2'	E410160-03A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S5-3'	E410160-04A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S5-4'	E410160-05A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S6-Surface	E410160-06A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S6-1'	E410160-07A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S6-2'	E410160-08A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S6-3'	E410160-09A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S6-4'	E410160-10A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S7-Surface	E410160-11A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S7-1'	E410160-12A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S7-2'	E410160-13A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S7-3'	E410160-14A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S7-4'	E410160-15A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S8-Surface	E410160-16A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S8-1'	E410160-17A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S8-2'	E410160-18A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S8-3'	E410160-19A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
S8-4'	E410160-20A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S5-Surface E410160-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2442101
Benzene	ND	0.0250	1		10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1		10/16/24	10/19/24	
Toluene	ND	0.0250	1		10/16/24	10/19/24	
o-Xylene	ND	0.0250	1		10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1		10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1		10/16/24	10/19/24	
Surrogate: Bromofluorobenzene		92.3 %	70-130		10/16/24	10/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		10/16/24	10/19/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/16/24	10/19/24	
Surrogate: Bromofluorobenzene		92.3 %	70-130		10/16/24	10/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		10/16/24	10/19/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV	V		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1		10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1		10/16/24	10/22/24	
Surrogate: n-Nonane		106 %	50-200		10/16/24	10/22/24	
	_			4 1 / D7	r		Batch: 2442114
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT			Batch: 2442114



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S5-1'

		E410160-02					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Benzene	ND	0.0250	1	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	78.2	25.0	1	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/16/24	10/22/24	
Surrogate: n-Nonane		108 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
Chloride	7740	100	5	5	10/16/24	10/18/24	



Nonhalogenated Organics by EPA 8015D - GRO

Analyte

Benzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

Batch: 2442101

#### **Sample Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S5-2' E410160-03

#### Reporting Result Limit Dilution Prepared Analyzed Notes mg/kg mg/kg Analyst: IY Batch: 2442101 **Volatile Organic Compounds by EPA 8260B** 10/16/24 10/20/24 ND 0.0250 10/20/24 1 10/16/24 ND 0.0250ND 0.0250 1 10/16/24 10/20/24 1 10/16/24 10/20/24 ND 0.0250ND 1 10/16/24 10/20/24 0.050010/20/24 10/16/24 1 ND 0.025010/20/24 10/16/24 Surrogate: Bromofluorobenzene 94.4 % 70-130 94.0 % 10/16/24 10/20/24 Surrogate: 1,2-Dichloroethane-d4 70-130 10/20/24 Surrogate: Toluene-d8 102 % 70-130 10/16/24

Gasoline Range Organics (C6-C10)	ND	20.0		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.4 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analy	yst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0		1	10/16/24	10/22/24	
	3.75	50.0		1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/16/24	10/22/24	

mg/kg

Analyst: IY

mg/kg

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst:	DT		Batch: 2442114
Chloride	581	20.0	1	10/16/24	10/18/24	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S5-3'

		E410160-04				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.2 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.2 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/22/24	
Surrogate: n-Nonane		107 %	50-200	10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2442114
Chloride	583	20.0	1	10/16/24	10/18/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S5-4'

#### E410160-05

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2442101
Benzene	ND	0.0250		1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250		1	10/16/24	10/19/24	
Toluene	ND	0.0250		1	10/16/24	10/19/24	
o-Xylene	ND	0.0250		1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500		1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250		1	10/16/24	10/19/24	
Surrogate: Bromofluorobenzene		95.1 %	70-130		10/16/24	10/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		10/16/24	10/19/24	
Surrogate: Toluene-d8		101 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/16/24	10/19/24	
Surrogate: Bromofluorobenzene		95.1 %	70-130		10/16/24	10/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		10/16/24	10/19/24	
Surrogate: Toluene-d8		101 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0		1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/16/24	10/22/24	
Surrogate: n-Nonane		104 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2442114
	691	20.0		1	10/16/24	10/18/24	

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HPO Box 247Project Number:01058-0007Reported:Plains TX, 79355-0247Project Manager:Tom Bynum10/23/2024 11:06:23AM

#### S6-Surface E410160-06

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.0 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.0 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	241	25.0	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	136	50.0	1	10/16/24	10/22/24	
Surrogate: n-Nonane		108 %	50-200	10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442114
Chloride	8750	200	10	10/16/24	10/19/24	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S6-1'

		E410160-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2442101
Benzene	ND	0.0250		1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250		1	10/16/24	10/20/24	
Toluene	ND	0.0250		1	10/16/24	10/20/24	
o-Xylene	ND	0.0250		1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500		1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.5 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.5 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	339	25.0		1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	182	50.0		1	10/16/24	10/22/24	
Surrogate: n-Nonane		107 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
Chloride	6670	100		5	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S6-2'

		E410160-08					
		Reporting					
Analyte	Result	Limit	Dilı	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Benzene	ND	0.0250		1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250		1	10/16/24	10/20/24	
Toluene	ND	0.0250		1	10/16/24	10/20/24	
o-Xylene	ND	0.0250		1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500		1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		92.2 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		92.2 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0		1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/16/24	10/22/24	
Surrogate: n-Nonane		109 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
Chloride	1140	20.0		1	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S6-3' E410160-09

		E110100 07					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2442101
Benzene	ND	0.0250	1	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	l	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		91.7 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		91.7 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/16/24	10/22/24	
Surrogate: n-Nonane		109 %	50-200	·	10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	DT		Batch: 2442114
Chloride	1680	20.0	1	1	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S6-4'

#### E410160-10

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2442101
Benzene	ND	0.0250	1	l	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	l	10/16/24	10/20/24	
Toluene	ND	0.0250	1	l	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	[	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	<u> </u>	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1		10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[	10/16/24	10/22/24	
Surrogate: n-Nonane		105 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	DT		Batch: 2442114
					10/16/24	10/18/24	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S7-Surface E410160-11

	_	Reporting	_			
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.5 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.5 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	156	25.0	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	88.1	50.0	1	10/16/24	10/22/24	
Surrogate: n-Nonane		102 %	50-200	10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2442114
Chloride	9060	200	10	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S7-1'

		E410160-12				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	179	25.0	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	104	50.0	1	10/16/24	10/22/24	
Surrogate: n-Nonane		105 %	50-200	10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2442114
Chloride	8970	200	10	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S7-2'

#### E410160-13

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2442101
Benzene	ND	0.0250	1		10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1		10/16/24	10/20/24	
Toluene	ND	0.0250	1		10/16/24	10/20/24	
o-Xylene	ND	0.0250	1		10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1		10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	l	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	ļ.	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		103 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1		10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1		10/16/24	10/22/24	
Surrogate: n-Nonane		110 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	DT		Batch: 2442114

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S7-3'

		E410160-14					
	Reporting						
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg Analyst:		IY	Batch: 2442101		
Benzene	ND	0.0250		1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250		1	10/16/24	10/20/24	
Toluene	ND	0.0250		1	10/16/24	10/20/24	
o-Xylene	ND	0.0250		1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500		1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	ng/kg mg/kg		Analyst: IY			Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2442108
Diesel Range Organics (C10-C28)	34.9	25.0		1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	59.1	50.0		1	10/16/24	10/22/24	
Surrogate: n-Nonane		104 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
				_			

100

5650

10/16/24

10/19/24



Chloride

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S7-4'

E41	Λ1	ሬበ	15
1741	UΙ	UU	-13

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Benzene	ND	0.0250	1	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		93.6 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		93.6 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/16/24	10/22/24	
Surrogate: n-Nonane		102 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
		•	•		•	10/19/24	

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HPO Box 247Project Number:01058-0007Reported:Plains TX, 79355-0247Project Manager:Tom Bynum10/23/2024 11:06:23AM

## S8-Surface **E410160-16**

		2.10100 10				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY	<u> </u>	Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		94.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	250	25.0	1	10/16/24	10/23/24	
Oil Range Organics (C28-C36)	139	50.0	1	10/16/24	10/23/24	
Surrogate: n-Nonane		107 %	50-200	10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2442114
Chloride	8680	200	10	10/16/24	10/19/24	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

#### S8-1'

		E410160-17				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	nalyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		91.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		91.9 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	nalyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	233	25.0	1	10/16/24	10/23/24	
Oil Range Organics (C28-C36)	136	50.0	1	10/16/24	10/23/24	
Surrogate: n-Nonane		104 %	50-200	10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: DT		Batch: 2442114
Chloride	8980	200	10	10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S8-2'

#### E410160-18

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY	Y		Batch: 2442101
Benzene	ND	0.0250	1		10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1		10/16/24	10/20/24	
Toluene	ND	0.0250	1		10/16/24	10/20/24	
o-Xylene	ND	0.0250	1		10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1		10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1		10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		96.0 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		96.0 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	V		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1		10/16/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1		10/16/24	10/23/24	
Surrogate: n-Nonane		112 %	50-200		10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: D	Т		Batch: 2442114
Amons by EFA 500.0/9050A							

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S8-3'

#### E410160-19

	Reporting						
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Benzene	ND	0.0250	1	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		92.4 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		92.4 %	70-130		10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		10/16/24	10/20/24	
Surrogate: Toluene-d8		102 %	70-130		10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
Diesel Range Organics (C10-C28)	29.2	25.0	1	1	10/16/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/16/24	10/23/24	
Surrogate: n-Nonane		106 %	50-200		10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
Chloride	4360	40.0		2	10/16/24	10/19/24	<del></del>

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

S8-4'

		E410160-20				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130	10/16/24	10/20/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/16/24	10/20/24	
Surrogate: Toluene-d8		104 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2442108
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/23/24	
Surrogate: n-Nonane		104 %	50-200	10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2442114

100

5660

10/16/24

10/19/24



Chloride

### **QC Summary Data**

Pima Environmental Services-Carlsbad Project Name: Betelgeuse 19 Federal #6H Reported:

PO Box 247 Project Number: 01058-0007

Plains TX, 79355-0247 Project Manager: Tom Bynum 10/23/2024 11:06:23AM

Plains TX, 79355-0247		Project Manager	:: To	m Bynum				10/2	23/2024 11:06:23A
	Ve	olatile Organi	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442101-BLK1)							Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
LCS (2442101-BS1)							Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.51	0.0250	2.50		100	70-130			
Toluene	2.45	0.0250	2.50		98.0	70-130			
p-Xylene	2.59	0.0250	2.50		104	70-130			
o,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike (2442101-MS1)				Source:	E410160-	05	Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Benzene	2.46	0.0250	2.50	ND	98.3	48-131			
Ethylbenzene	2.64	0.0250	2.50	ND	105	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
p-Xylene	2.69	0.0250	2.50	ND	108	43-135			
o,m-Xylene	5.38	0.0500	5.00	ND	108	43-135			
Total Xylenes	8.07	0.0250	7.50	ND	108	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike Dup (2442101-MSD1)				Source:	E410160-	05	Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Benzene	2.43	0.0250	2.50	ND	97.3	48-131	0.961	23	
Ethylbenzene	2.67	0.0250	2.50	ND	107	45-135	1.34	27	
Toluene	2.61	0.0250	2.50	ND	104	48-130	2.17	24	
o-Xylene	2.72	0.0250	2.50	ND	109	43-135	1.29	27	
p,m-Xylene	5.38	0.0500	5.00	ND	108	43-135	0.0465	27	
Total Xylenes	8.11	0.0250	7.50	ND	108	43-135	0.464	27	
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			



0.500

104

70-130

0.522

Surrogate: Toluene-d8

Gasoline Range Organics (C6-C10)

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

### **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum10/23/2024 11:06:23AM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum				10/23	3/2024 11:06:23A
	Non	halogenated	Organics l	oy EPA 801	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442101-BLK1)							Prepared: 10	0/16/24 Analy	zed: 10/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
LCS (2442101-BS2)							Prepared: 10	0/16/24 Analy	zed: 10/19/24
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike (2442101-MS2)				Source:	E410160-0	05	Prepared: 10	0/16/24 Analy	zed: 10/19/24
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike Dup (2442101-MSD2)				Source:	E410160-0	05	Prepared: 10	0/16/24 Analy	zed: 10/19/24

50.0

0.500

0.500

0.500

20.0

ND

103

97.2

97.6

106

51.7

0.486

0.488

0.531

70-130

70-130

70-130

70-130



### **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	•
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/2024 11:06:23AM

RO			Analyst: NV
Rec Limits	RPD	RPD Limit	
%	%	%	Notes
	Prepared: 1	.0/16/24 A	Analyzed: 10/22/24
50-200			
	Prepared: 1	.0/16/24 A	Analyzed: 10/22/24
38-132			
50-200			
	Prepared: 1	0/16/24 A	Analyzed: 10/22/24
38-132			
50-200			
	Prepared: 1	.0/16/24 A	Analyzed: 10/22/24
38-132	9.83	20	
50-200			
	Rec Limits %  50-200  38-132  50-200  38-132  38-132	Rec Limits RPD %  Prepared: 1  50-200  Prepared: 1  38-132  50-200  Prepared: 1  38-132  9.83	Rec Limits RPD Limit % % %  Prepared: 10/16/24 A  50-200  Prepared: 10/16/24 A  38-132 50-200  Prepared: 10/16/24 A  38-132 50-200  Prepared: 10/16/24 A



Matrix Spike Dup (2442114-MSD1)

Chloride

### **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager		Betelgeuse 19 F 01058-0007 Tom Bynum	ederal #6F	ł		1	<b>Reported:</b> 0/23/2024 11:06:23AM
		Anions	by EPA	300.0/9056	<b>A</b>				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2442114-BLK1)							Prepared: 1	0/16/24 Ar	nalyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442114-BS1)							Prepared: 1	0/16/24 Ar	nalyzed: 10/18/24
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2442114-MS1)				Source:	E410160-	10	Prepared: 1	0/16/24 Ar	nalyzed: 10/18/24
Chloride	715	20.0	250	427	115	80-120			

250

20.0

Source: E410160-10

106

80-120

3.39

#### 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.



Prepared: 10/16/24 Analyzed: 10/18/24

20

### **Definitions and Notes**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/23/24 11:06

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project In	formatio	n							Cha	ain of Cus	tody													Page <u>3</u>	of <u>7</u>
Client: Pi	ma Env	ironmen	tal S	Servic	es				Bill To			·		La	b Us	e On	lv ·				TA	\T	Т	EPA P	rogram
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Project N	lanager:	Tom By	<u>nun</u>	n		Addr	ess:						101			010	59-0	2007				Х			
Address:	5614 N.	<b>Lovingt</b>	ton l	Hwy.		City,	State, Z	Zip			_ [							nd Meth	od						RCRA
City, State			<u> </u>	8240		Phor	ne:				[										1 1				
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7:18					S5-2'						3													_	
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7:36					S5-4'	-				3															
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Project In	formati	on						Cha	in of Cust	ody													Page <u>4</u>	of _	7
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								ss other arrangements are made. Hazardo										lient e	pense	e. Th	e repo	rt for the ana	lysis of the	above	
samples is	applicable	e only	y to tho	se sa	mples re	ceived by the lab	orato	ory with this COC. The liability of the labora	tory is limite	ed to	the a	moun	t paid	for on	the r	eport									



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Printed: 10/16/2024 9:22:58AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

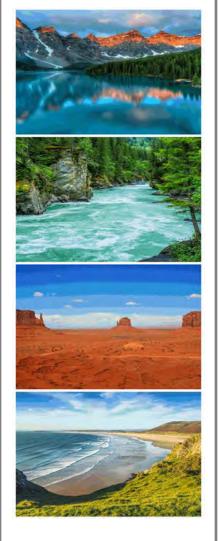
Instructions: Please take note of any NO checkmarks.

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:	10/16/24 0	8:00	Work Order ID:	E410160
Phone:	(575) 631-6977	Date Logged In:	10/15/24 1	6:34	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	10/22/24 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location mat	ch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	<u> </u>	<del>Journal</del>	
	Il samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.				Commen	ts/Resolution
	<u>urn Around Time (TAT)</u>				Commission de la mission de	on COC by alignt
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by is missing	
Sample C					Project Betelgeuse 19 I	ederal 6H has been
	sample cooler received?		Yes		separated into multiple	WOs due to high
8. If yes, v	was cooler received in good condition?		Yes		sample volume, WOs a	re
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		E410159-E410161.	
10. Were	custody/security seals present?		No		L410139-L410101.	
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
		temperature. 1	<u>~</u>			
Sample C	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	)	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · · · · · · · · · · · · · · · · · ·	iers conceteu.	103			
	field sample labels filled out with the minimum info	ermation:				
	ample ID?	ination.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		No			
Sample P	<u>reservation</u>					
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
<u>Multipha</u>	se Sample Matrix					
26. Does t	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and if	-		Subcontract Lab	v NA	
				240001111400 240		
Chent in	<u>astruction</u>					

Date

Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Federal #6H

Work Order: E410161

Job Number: 01058-0007

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/22/24

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

Date Reported: 10/22/24

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Federal #6H

Workorder: E410161

Date Received: 10/16/2024 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 8:00:00AM, under the Project Name: Betelgeuse 19 Federal #6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Federal #6H 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 reguarding 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

Field Offices:

**Southern New Mexico Area** 

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Cell: 505-320-4759

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum10/22/24 09:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
H1-Surface	E410161-01A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H1-1'	E410161-02A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H1-2'	E410161-03A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H1-3'	E410161-04A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H1-4'	E410161-05A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H2-Surface	E410161-06A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H2-1'	E410161-07A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H2-2'	E410161-08A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H2-3'	E410161-09A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H2-4'	E410161-10A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H3-Surface	E410161-11A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H3-1'	E410161-12A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H3-2'	E410161-13A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H3-3'	E410161-14A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H3-4'	E410161-15A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H4-Surface	E410161-16A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H4-1'	E410161-17A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H4-2'	E410161-18A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H4-3'	E410161-19A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H4-4'	E410161-20A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H5-Surface	E410161-21A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H5-1'	E410161-22A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H5-2'	E410161-23A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H5-3'	E410161-24A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
H5-4'	E410161-25A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
BG1-1'	E410161-26A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.
BG2-1'	E410161-27A	Soil	10/12/24	10/16/24	Glass Jar, 2 oz.

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#### H1-Surface E410161-01

		E-10101-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		83.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H1-1'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		83.0 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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### H1-2'

		E410161-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		85.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H1-3' E410161-04

		2110101 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		85.8 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H1-4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		84.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H2-Surface E410161-06

		E-10101-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		83.2 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H2-1'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		84.4 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H2-2'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		87.2 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H2-3'

		E410161-09				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		73.9 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



### **Sample Data**

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#### H2-4'

		E410161-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		80.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H3-Surface E410161-11

	·	Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		57.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H3-1'

	Reporting				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
ND	0.0250	1	10/16/24	10/19/24	
ND	0.0250	1	10/16/24	10/19/24	
ND	0.0250	1	10/16/24	10/19/24	
ND	0.0250	1	10/16/24	10/19/24	
ND	0.0500	1	10/16/24	10/19/24	
ND	0.0250	1	10/16/24	10/19/24	
	102 %	70-130	10/16/24	10/19/24	
mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
ND	20.0	1	10/16/24	10/19/24	
	89.3 %	70-130	10/16/24	10/19/24	
mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	61.7 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
	mg/kg  ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IO2 %         mg/kg           mg/kg         mg/kg           ND         20.0           89.3 %         mg/kg           ND         25.0           ND         50.0	Result         Limit         Dilution           mg/kg         mg/kg         An           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           Mg/kg         mg/kg         An           ND         20.0         1           89.3 %         70-130           mg/kg         mg/kg         An           ND         25.0         1           ND         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0500         1         10/16/24           ND         0.0250         1         10/16/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24           89.3 %         70-130         10/16/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         10/16/24           ND         25.0         1         10/16/24           ND         50.0         1         10/16/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24         10/19/24           ND         0.0250         1         10/16/24         10/19/24           ND         0.0250         1         10/16/24         10/19/24           ND         0.0500         1         10/16/24         10/19/24           ND         0.0250         1         10/16/24         10/19/24           ND         0.0250         1         10/16/24         10/19/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24         10/19/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         10/16/24         10/18/24           ND         25.0         1         10/16/24         10/18/24           ND         50.0         1         10/16/24         10/18/24



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#### H3-2' E410161-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		84.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H3-3' E410161-14

		2410101 14				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		81.6 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H3-4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		83.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H4-Surface E410161-16

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		87.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H4-1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		80.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	·



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#### H4-2'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		87.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	·



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#### H4-3'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		88.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H4-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442103
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442103
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/18/24	
Surrogate: n-Nonane		93.6 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H5-Surface E410161-21

		E410101-21				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2442116
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		97.1 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442095
Chloride	ND	20.0	1	10/16/24	10/17/24	



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#### H5-1'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	vst: BA		Batch: 2442116
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0500	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
	102 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Analyst: BA			Batch: 2442116
ND	20.0	1	10/16/24	10/20/24	
	89.5 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2442106
ND	25.0	1	10/16/24	10/17/24	
ND	50.0	1	10/16/24	10/17/24	
	101 %	50-200	10/16/24	10/17/24	
mg/kg	mg/kg	Analy	/st: IY		Batch: 2442095
	mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           I02 %           mg/kg         mg/kg           ND         20.0           89.5 %         mg/kg           ND         25.0           ND         50.0           101 %	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MB/kg         mg/kg         Analy           ND         20.0         1           89.5 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           101 %         50-200         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0500         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           mg/kg         70-130         10/16/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         10/16/24           ND         50.0         1         10/16/24           ND         50.0         1         10/16/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0500         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         10/16/24         10/17/24           ND         50.0         1         10/16/24         10/17/24           ND         50.0         1         10/16/24         10/17/24



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

#### H5-2'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442116
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		97.8 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2442095
Chloride	ND	20.0	1	10/16/24	10/17/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

#### H5-3'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2442116
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		100 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442095
<u> </u>	ND	20.0		10/16/24	10/17/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

#### H5-4'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2442116
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
ND	0.0500	1	10/16/24	10/20/24	
ND	0.0250	1	10/16/24	10/20/24	
	102 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Analyst: BA			Batch: 2442116
ND	20.0	1	10/16/24	10/20/24	
	89.0 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2442106
ND	25.0	1	10/16/24	10/17/24	
ND	50.0	1	10/16/24	10/17/24	
	96.1 %	50-200	10/16/24	10/17/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2442095
	mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IO2 %         mg/kg           MD         20.0           89.0 %         mg/kg           ND         25.0           ND         50.0           96.1 %	Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         20.0250         1           ND         20.0         1           89.0 %         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           96.1 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0500         1         10/16/24           ND         0.0250         1         10/16/24           ND         0.0250         1         10/16/24           mg/kg         70-130         10/16/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         10/16/24           ND         50.0         1         10/16/24           96.1 %         50-200         10/16/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         10/16/24         10/20/24           ND         0.0500         1         10/16/24         10/20/24           ND         0.0250         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         10/16/24         10/20/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         10/16/24         10/17/24           ND         50.0         1         10/16/24         10/17/24           ND         50.0         1         10/16/24         10/17/24



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

## BG1-1'

		E410161-26				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2442116
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		95.8 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442095
Chloride	ND	20.0	1	10/16/24	10/17/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

#### BG2-1'

		E410161-27				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2442116
Benzene	ND	0.0250	1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	ND	0.0250	1	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	10/16/24	10/20/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/20/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/20/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		98.0 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2442095
Chloride	ND	20.0	1	10/16/24	10/17/24	



Betelgeuse 19 Federal #6H Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 01058-0007 Plains TX, 79355-0247 Project Manager: Tom Bynum 10/22/2024 9:03:51AM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2442103-BLK1) Prepared: 10/16/24 Analyzed: 10/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.19 8.00 102 70-130 LCS (2442103-BS1) Prepared: 10/16/24 Analyzed: 10/19/24 5.63 113 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.43 0.0250 5.00 109 70-130 5.56 0.0250 5.00 111 70-130 Toluene o-Xylene 5.45 0.0250 5.00 109 70-130 11.0 10.0 110 70-130 0.0500 p.m-Xvlene 110 70-130 16.5 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.17 Matrix Spike (2442103-MS1) Source: E410161-05 Prepared: 10/16/24 Analyzed: 10/19/24 5.51 0.0250 5.00 ND 110 54-133 Benzene ND 61-133 Ethylbenzene 5.34 0.0250 5.00 107 Toluene 5.45 0.0250 5.00 ND 109 61-130 5.36 ND 107 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.9 0.0500 10.0 ND 109 63-131 16.2 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 Matrix Spike Dup (2442103-MSD1) Source: E410161-05 Prepared: 10/16/24 Analyzed: 10/19/24 5.66 0.0250 5.00 ND 113 54-133 2.63 61-133 5.48 0.0250 5.00 ND 110 2.60 20 Ethylbenzene 61-130 Toluene 5 59 0.0250 5.00 ND 112 2 52 20 5.52 5.00 ND 110 63-131 2.80 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

111

111

102

63-131

63-131

70-130

2.65

2.70

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

11.1

16.7

8.20

Betelgeuse 19 Federal #6H Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 01058-0007 Plains TX, 79355-0247 Project Manager: Tom Bynum 10/22/2024 9:03:51AM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2442116-BLK1) Prepared: 10/16/24 Analyzed: 10/20/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.14 8.00 102 70-130 LCS (2442116-BS1) Prepared: 10/16/24 Analyzed: 10/20/24 5.15 103 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.91 0.0250 5.00 98.1 70-130 5.06 0.0250 5.00 101 70-130 Toluene 99.3 o-Xylene 4.96 0.0250 5.00 70-130 9.94 10.0 99.4 70-130 0.0500 p.m-Xvlene 99.4 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.20 Matrix Spike (2442116-MS1) Source: E410161-25 Prepared: 10/16/24 Analyzed: 10/20/24 5.52 0.0250 5.00 ND 110 54-133 Benzene ND 61-133 Ethylbenzene 5.32 0.0250 5.00 106 Toluene 5.45 0.0250 5.00 ND 109 61-130 5.37 ND 107 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.8 0.0500 10.0 ND 108 63-131 16.1 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.24 8.00 Matrix Spike Dup (2442116-MSD1) Source: E410161-25 Prepared: 10/16/24 Analyzed: 10/21/24 5.33 0.0250 5.00 ND 54-133 3.47 ND 61-133 2.28 5.20 0.0250 5.00 104 20 Ethylbenzene

5 29

5.21

10.6

15.8

8.10

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

106

104

106

105

101

61-130

63-131

63-131

63-131

70-130

3.05

2.94

1.71

2.12

20

20

20

20



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	-
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

Plains TX, 79355-0247		Project Manage		m Bynum				10/2	2/2024 9:03:51A
	Non	halogenated	Organics l	oy EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2442103-BLK1)							Prepared: 10	0/16/24 Anal	yzed: 10/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			
LCS (2442103-BS2)							Prepared: 10	0/16/24 Anal	yzed: 10/19/24
Gasoline Range Organics (C6-C10)	38.8	20.0	50.0		77.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			
Matrix Spike (2442103-MS2)				Source:	E410161-	05	Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			
Matrix Spike Dup (2442103-MSD2)				Source:	E410161-	05	Prepared: 1	0/16/24 Anal	yzed: 10/19/24
Gasoline Range Organics (C6-C10)	38.7	20.0	50.0	ND	77.4	70-130	4.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	_
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				10/2	22/2024 9:03:51AN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2442116-BLK1)							Prepared: 1	0/16/24 Anal	yzed: 10/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			
LCS (2442116-BS2)							Prepared: 1	0/16/24 Anal	yzed: 10/20/24
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2442116-MS2)				Source:	E410161-2	25	Prepared: 1	0/16/24 Anal	yzed: 10/20/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike Dup (2442116-MSD2)				Source:	E410161-2	25	Prepared: 1	0/16/24 Anal	yzed: 10/20/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.9	70-130	10.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum10/22/20249:03:51AM

Plains TX, 79355-0247		Project Manager	r: 10	m Bynum				1	0/22/2024 9:03:51A
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO	_		Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442106-BLK1)							Prepared: 1	0/16/24 An	nalyzed: 10/17/24
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.7		50.0		101	50-200			
.CS (2442106-BS1)							Prepared: 1	0/16/24 An	nalyzed: 10/17/24
riesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
urrogate: n-Nonane	52.2		50.0		104	50-200			
Matrix Spike (2442106-MS1)				Source:	E410161-2	24	Prepared: 1	0/16/24 An	nalyzed: 10/17/24
riesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
urrogate: n-Nonane	53.8		50.0		108	50-200			
Matrix Spike Dup (2442106-MSD1)				Source:	E410161-2	24	Prepared: 1	0/16/24 An	nalyzed: 10/17/24
tiesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	2.70	20	
urrogate: n-Nonane	51.4		50.0		103	50-200			

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	·
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum				I	0/22/2024 9:03:51AN
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442107-BLK1)							Prepared: 1	0/16/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			
LCS (2442107-BS1)							Prepared: 1	0/16/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			
Matrix Spike (2442107-MS1)				Source:	E410161-	10	Prepared: 1	0/16/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			
Matrix Spike Dup (2442107-MSD1)				Source:	E410161-	10	Prepared: 1	0/16/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	3.41	20	
Gurrogate: n-Nonane	44.8		50.0		89.6	50-200			



Chloride

# **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247	Project Name: Project Number:	Betelgeuse 19 Federal #6H 01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

Fiams 1A, 79353-0247		Froject Manager	1. 10	iii Byllulli				1	0/22/2024 9:03.51A	IVI			
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				
Blank (2442095-BLK1)							Prepared: 1	0/16/24 An	nalyzed: 10/16/24				
Chloride	ND	20.0											
LCS (2442095-BS1)							Prepared: 1	0/16/24 An	nalyzed: 10/16/24				
Chloride	251	20.0	250		100	90-110							
Matrix Spike (2442095-MS1)				Source:	E410154-	04	Prepared: 1	0/16/24 An	alyzed: 10/16/24				
Chloride	298	20.0	250	41.7	102	80-120							
Matrix Spike Dup (2442095-MSD1)				Source:	E410154-	04	Prepared: 1	0/16/24 An	nalyzed: 10/16/24				

250

41.7

80-120

2.56

20.0

Chloride

Chloride

Matrix Spike Dup (2442113-MSD1)

#### **QC Summary Data**

Pima Environmental Services-Carlsba PO Box 247 Plains TX, 79355-0247	d	Project Name: Project Number: Project Manager	: (	Betelgeuse 19 F 01058-0007 Tom Bynum	Н		<b>Reported:</b> 10/22/2024 9:03:51AM							
,,,,,,,	Anions by EPA 300.0/9056A													
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes					
Blank (2442113-BLK1)							Prepared: 1	0/16/24 An	nalyzed: 10/17/24					
Chloride	ND	20.0												
LCS (2442113-BS1)							Prepared: 1	0/16/24 An	nalyzed: 10/17/24					
Chloride	258	20.0	250		103	90-110								
Matrix Spike (2442113-MS1)				Source:	E410161-	01	Prepared: 1	0/16/24 Analyzed: 10/17/24						

250

250

20.0

20.0

ND

ND

104

104

Source: E410161-01

80-120

80-120

0.0193

Prepared: 10/16/24 Analyzed: 10/17/24

20

259

259

#### 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:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/24 09:03

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project	Information
Client:	Pima Envir

Chain of Custous	Chain	of	Custody
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Page	_5	of	_7_	

Received by OCD: 1/31/2025 5:40:31 AM

Client: Pima Environmental Services Bill To									Bill To		Lab Use Only						TA	EPA Pi	ogram						
Project:									Attention: Devon Energy		Lab	WO			Job	Num	ber		1D	2D	3D	Sta	andard	CWA	SDWA
Project N	/lan	ager	: To	om By	/nun	n			Address:		E	110	161		010	58-	000 F	-					Χ		
Address:	56	14 I	۷. L	oving	ton	Hwy	•	100	City, State, Zip						Analy	ysis a	nd Me	thod					2.2		RCRA
City, Stat	e, Z	ip	Hob	bs. N	M. 8	824	0	3.5	Phone:																
Phone: 8	806	3-78	<u>2-11</u>	51					Email:		5	55	1	1	1	ļ		- 1						State	
Email: tom@pimaoil.com								Direc Dunio at # 1 270 (pABB2427	7250201	8	8	=	۱.	۱.	9	lł		2				NM CO	UT AZ	TX	
Report due by: Pima Project # 1-379 (nAPP2								Pima Project # 1-379 (NAPP2427	723929)	្ត្រី	ខ្លឹ	8	828	00	&	li	l	Σ	¥			Х			
Time Sampled		Date impled		Matrix		No. of ntainers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Metals 6010	Chloride 300.0			верос	эоаы				Remarks	
16:17	۱۵	112		S		1	H1-Surface	•											х						
10:23							H1-1'			2									Ш						
10:29		$\perp$					H1-2'			3									$\perp$						
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10:41	L	$\perp$				1_	H1-4'			5									$\bot$						
10:47		$\perp$	_				H2-Surface	9		6		ļ	ļ						Ш						
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11:17				_	_		H2-2'	_		8		<u> </u>	<u> </u>												
11:23		,			_		H2-3'			9 9		<u> </u>	<u> </u>						┸						
11:36	<u></u>						H2-4'			10					<u> </u>										
Addition	ıal I	nstr	uctio	ons:		Wor	k Order/Billing	g: 21	421826																
							ticity of this sample. may be grounds for l		ware that tampering with or intentionally mislabelli tion. <u>Sampled by:</u>		locati	on,					_		above 0	but le	ss than 6	5°C on	on ice the day t subsequent da		d or received
Relinquish	ed b	y: (Si	natu	re)		Dat	15/24 7	:10	Received by: (Signature)  Nichelle Gonzales	Date 10.15.)	У	Time	417	)	Rec	eived	on ic	e:		ib Us )/ N	se On	lly			
Relinquished by: (Signature)    Michelle Gonzales   DIS-JH   Hel   Recelved by: (Signature)   I										Date 10-15	.74	Time	161	<u>s</u>	T1_	. 1		_	<u>T2</u>			· 	<u>T3</u>		
Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  0800  AVG Temp °C_4																									
						ge, A -	Aqueous, O - Other			Containe					ooly/p	lastic	, ag - a								
									s other arrangements are made. Hazardous									clier	t exp	ense.	The r	report	for the ana	lysis of the	above
									ry with this COC. The liability of the laboratory																

ent or disposed of at the client expense. The report for the analysis of the above or on the report.

Page 164 of 231

Client: D	ma Envi	ronmani	al Se	nvice		18675	Bill To				ı,	h Us	e Onl	v		1		T/	λT		EPA Pr	ogram			
	Betelge						Attention: Devon Energy		Lab	WO#			Job N	lumi		1D	2D	3D		andard	CWA	SDWA			
	lanager:					fag.	Address:			10			90	<u>58-</u>	-0007					Χ					
Address:	5614 N.	Lovingt	on H	wy.		1	City, State, Zip						Analys	sis an	d Meth	od						RCRA			
	e, Zip Ho		<u> 1, 88</u>	<u> 240</u>			Phone:	<del></del>												7.33					
	<u> 306-782-</u>						Email:		8015	8015				l		1					State				
	om@pin	naoil.cor	n				Pima Project # 1-379 (nAPP2427725929)			by 8	121	99	0	8		Σ		1 1			UT AZ	TX			
Report due by:							Tima Troject # 1 010 (III II 1212)		380 by	8	) 8C	y 826	y 826	34 82	by 82	5.60	g g						X		أسلسا
Time Sampled	Date Sampled	Matrix	No. Conta		Sample ID			Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	Верос				Remarks				
11:44	10/12	S	1		H3-Surface	e 		10						_		X					. <u>-</u>				
11:56					H3-1'			12								$\downarrow \downarrow$	_								
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	al Instruc				Order/Billing								la .												
					ay be grounds for	tegal ac			locati					-	_	np abov	0 but l	ess than 6	6 °C on :	on ice the day to subsequent day		a or received			
luri		dame		70	15/24 12	-11		Date 1015-2	4	Time 14	p		Rece	ived	on ice:		D I	se On I	ily						
									.74	+-	61.	<u>S</u>	<u>T1</u>			<u>T2</u>	9	***		<u>T3</u>					
Relimpuished by: (Signature)  Date  Time  Received by: (Signature)  Date  10.15.74 7230									ત્રુપ	Time		0	AVG	Tem	p °C	4		. 4.1 - 11. <u>- 1.</u>							
Sample Mat	rix: S - Soil, So	- Solid, Sg -	Sludge	A - Aq	ueous, O - Other			Containe				<b>p</b> - p	oly/pla	astic,	ag - am	ber gl									
							ss other arrangements are made. Hazardous									ient ex	pense	. The r	report	for the ana	lysis of the	above			
leamples is	annlicable c	alv to the	e sami	alac ra	caived by the la	horato	ny with this COC. The liability of the laborator	is limited to	o the a	amour	nt naid	i for o	n the r	eport								J			

Chain	of Custody
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Page	7	of	7	
гадс		•• _		

Client: P	ima E	nvir	onmen	tal S	ervio	ces	Т	П	Bill To	_				Lá	ab U	se Or	ıly					TA	\T		EPA Pr	ogram
			ıse 19						Attention: Devon Energy	1	_	Lab	WO#		•/*	Jòb	Num	ber		1D	2D	3D	Sta	andard	CWA	SDWA
Project N								1-	Address:			E٩	101	61		010	<u>58</u> -	-000	7					Χ		
<u>Address:</u>								17	City, State, Zip							Anal	ysis aı	nd Me	thod		,					RCRA
City, State				M. 88	<u> 3240</u>	<u> </u>		-	Phone:	_				]						1						
Phone: 8									Email:	į		015	015	l						ı			Ĭ		State	
Email: 1		oima	aoil.co	<u>m</u>				ı	Pima Project # 1-379 (nAPP24277	72!	5929)	8	9 A	12	ြင္ယ	。	0.0			Σ				NM CO	UT AZ	TX
Report d	ue by:	<del></del>		_					- Tima Project # 1 575 (iiii 1 2 12)	1	_	8	8	8	82	69	ъ Э				ב			х		
Time Sampled	Date Sample	d	Matrix		o. of ainers	Sample ID				N	Lab umber	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Metals 6010	Chloride 300.0			верос	верос				Remarks	
1223	10/1	2	S	·	1	H5-Surf	ace				21									х						
1:34	-					H5-1'					22							ĺ								
1:49						H5-2'					23															
1:56						H5-3'					24															
2:16		1				H5-4'			·		25															
2:23						BG1-1'					26															
2:38	1	-				BG2-1'				(	217															
					-															_						
-		+	-																							
Addition	al Inst	ructi	ons:	V	Vork	Order/Bil	lling:	214	21826						•	•										
	••		•			icity of this san	•		are that tampering with or intentionally mislabellin	ig th	ne sample	locatio	on,	_				-						on ice the day t subsequent da	hey are sample ys.	d or received
Relinguishe	d by: (S	ignat	ure)		Date		Time		Received by: (Signature)	Da	ie 515.24	ł	Time	110		Rec	eived	on ic	·e:		b Us V N	e On	ly			
Relinquished by: (Signature) Date Time Redeived by: (Signature)								 ./ <u>S</u>	•	T1				T2				<u>T3</u>								
Relinquished by: (Signature) Date Time Received by: (Signature Date					Dá	te 0-16-7	રેવ	Time	100		AVO	Ten	ıp °C_	4	100 100 100 100 100 100 100 100 100 100											
Sample Mati	mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																									
Note: Sam	ples are	disca	rded 30 c	lays af	ter re	sults are repo	orted (		other arrangements are made. Hazardous s	am	ples will	be ret	urned	to cli	ient d	or disp	osed o	f at the					eport	for the ana	lysis of the	above
samples is	applicab	le on	ly to thos	se sam	ples r	eceived by th	ne labo	ratory	with this COC. The liability of the laboratory	is li	imited to	the a	moun	nt paic	for	on the	report	<u>.</u>								

Printed: 10/16/2024 9:27:49AM

#### **Envirotech Analytical Laboratory**

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:	10/16/24 (	08:00	Work Order ID:	E410161
Phone:	(575) 631-6977	Date Logged In:	10/15/24 1	6:35	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	10/22/24	7:00 (4 day TAT)		
1. Does th 2. Does th 3. Were s 4. Was th 5. Were a	Custody (COC)  ne sample ID match the COC? ne number of samples per sampling site location mat amples dropped off by client or carrier? e COC complete, i.e., signatures, dates/times, reques Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disuessic Curn Around Time (TAT)	ted analyses?	Yes Yes Yes Yes Yes	Carrier: <u>C</u>	<u>Comme</u>	nts/Resolution
	e COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by is missing	•
<ul><li>8. If yes,</li><li>9. Was th</li><li>10. Were</li><li>11. If yes</li></ul>	sample cooler received? was cooler received in good condition? e sample(s) received intact, i.e., not broken? custody/security seals present? , were custody/security seals intact?		Yes Yes Yes No NA		Project Betelgeuse 19 separated into multiple sample volume, WOs E410159-E410161.	e WOs due to high
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?	•	NA			
	on-VOC samples collected in the correct containers? appropriate volume/weight or number of sample contain		Yes Yes			
Field Lal 20. Were S	· · · · · · · · · · · · · · · · · · ·		Yes Yes No			
Sample F	Preservation_					
	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved m	etals?	No			
	se Sample Matrix	0				
	the sample have more than one phase, i.e., multiphase		No			
•	, does the COC specify which phase(s) is to be analy	zeu?	NA			
28. Are sa	ract Laboratory  amples required to get sent to a subcontract laborator  subcontract laboratory specified by the client and if	-	No NA	Subcontract Lab	: NA	
Client II	<u>nstruction</u>					
						<i>C</i> 3
Signat	ure of client authorizing changes to the COC or sample dis	osition.			Date	envirotech Inc.

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

Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

#### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Federal #6H

Work Order: E410332

Job Number: 01058-0007

Received: 10/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/1/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

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

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

Date Reported: 11/1/24

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Federal #6H

Workorder: E410332

Date Received: 10/28/2024 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Betelgeuse 19 Federal #6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Federal #6H 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 reguarding 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

Field Offices:

**Southern New Mexico Area** 

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:	
PO Box 247	Project Number:	01058-0007	Reported:	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/01/24 12:35	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-5'	E410332-01A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S2-5'	E410332-02A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S3-5'	E410332-03A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S4-5'	E410332-04A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S5-5'	E410332-05A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S7-5'	E410332-06A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
S8-5'	E410332-07A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S1-5' E410332-01

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepa	ared Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: BA		Batch: 2443219
Benzene	ND	0.0250	1	10/26	5/24 10/29/24	
Ethylbenzene	ND	0.0250	1	10/26	5/24 10/29/24	
Toluene	ND	0.0250	1	10/26	5/24 10/29/24	
o-Xylene	ND	0.0250	1	10/26	5/24 10/29/24	
p,m-Xylene	ND	0.0500	1	10/26	5/24 10/29/24	
Total Xylenes	ND	0.0250	1	10/26	5/24 10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/26	5/24 10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/26	5/24 10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/26	5/24 10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26	5/24 10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/26	5/24 10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/26	5/24 10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/26	5/24 10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28	3/24 10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28	3/24 10/29/24	
Surrogate: n-Nonane		97.7 %	50-200	10/28	3/24 10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2444058
Chloride	ND	20.0	1	10/29	0/24 10/30/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S2-5' E410332-02

		E 110002 02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	l Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2443219
Benzene	ND	0.0250	1	10/26/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/26/24	10/30/24	
Toluene	ND	0.0250	1	10/26/24	10/30/24	
o-Xylene	ND	0.0250	1	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/26/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/29/24	
Surrogate: n-Nonane		99.6 %	50-200	10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2444058
Chloride	ND	20.0	1	10/29/24	10/30/24	-



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S3-5' E410332-03

	_	Reporting	_		_		
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: BA			Batch: 2443219
Benzene	ND	0.0250	1	[	10/26/24	10/30/24	
Ethylbenzene	ND	0.0250	1	l	10/26/24	10/30/24	
Toluene	ND	0.0250	1	l	10/26/24	10/30/24	
o-Xylene	ND	0.0250	1	l	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500	1	l	10/26/24	10/30/24	
Total Xylenes	ND	0.0250	1	[	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: BA	L		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV	7		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/28/24	10/29/24	
Surrogate: n-Nonane		97.3 %	50-200		10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: IY			Batch: 2444058
	ND					10/30/24	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S4-5' E410332-04

		2.10002 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Лиаус	Kesuit	Lillit	Dii			Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: BA		Batch: 2443219
Benzene	ND	0.0250		1	10/26/24	10/30/24	
Ethylbenzene	ND	0.0250		1	10/26/24	10/30/24	
Toluene	ND	0.0250		1	10/26/24	10/30/24	
o-Xylene	ND	0.0250		1	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500		1	10/26/24	10/30/24	
Total Xylenes	ND	0.0250		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	·	10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0		1	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/28/24	10/29/24	
Surrogate: n-Nonane		101 %	50-200		10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2444058
Chloride	ND	20.0		1	10/29/24	10/30/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S5-5' E410332-05

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2443219
Benzene	ND	0.0250		1	10/26/24	10/30/24	Batch: 2 1 1321)
Ethylbenzene	ND	0.0250		1	10/26/24	10/30/24	
Toluene	ND	0.0250		1	10/26/24	10/30/24	
o-Xylene	ND	0.0250		1	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500		1	10/26/24	10/30/24	
Total Xylenes	ND	0.0250		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		113 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		113 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0		1	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/28/24	10/29/24	
Surrogate: n-Nonane		100 %	50-200		10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2444058
Chloride	ND	20.0	•	1	10/29/24	10/30/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### S7-5' E410332-06

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2443219
Benzene	ND	0.0250	1	l	10/26/24	10/30/24	
Ethylbenzene	ND	0.0250	1	l	10/26/24	10/30/24	
Toluene	ND	0.0250	1	l	10/26/24	10/30/24	
o-Xylene	ND	0.0250	1	1	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500	1	1	10/26/24	10/30/24	
Total Xylenes	ND	0.0250	1	<u>[</u>	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0	1	l	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[	10/28/24	10/29/24	
Surrogate: n-Nonane		103 %	50-200		10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2444058
	ND	20.0			10/29/24	10/30/24	·



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

#### \$8-5' E410332-07

		2110002 07					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	•		Batch: 2443219
Benzene	ND	0.0250		1	10/26/24	10/30/24	Butch: 2 1 1321)
Ethylbenzene	ND	0.0250		1	10/26/24	10/30/24	
Toluene	ND	0.0250		1	10/26/24	10/30/24	
o-Xylene	ND	0.0250		1	10/26/24	10/30/24	
p,m-Xylene	ND	0.0500		1	10/26/24	10/30/24	
Total Xylenes	ND	0.0250		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/26/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130		10/26/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		10/26/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130		10/26/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2444008
Diesel Range Organics (C10-C28)	ND	25.0		1	10/28/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0		1	10/28/24	10/29/24	
Surrogate: n-Nonane		99.2 %	50-200		10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2444058
Chloride	ND	20.0		1	10/29/24	10/30/24	



Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum11/1/2024 12:35:23PM

Result   Limit   Level   Result   Rec   Limits   RPD   Limit   Limits   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   % % % % % % % % Notes	Plains TX, 79355-0247		Project Manage	r: To	m Bynum				1	1/1/2024 12:35:23PN
Result   Limit   Level   Result   Rec   Limits   RPD   Limit   Limit   mg/kg		Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Mank (2443219-BLK1)	Analyte	Result				Rec		RPD		
ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Apple   ND	Blank (2443219-BLK1)							Prepared: 1	0/26/24 Ana	alyzed: 10/29/24
ND	Benzene	ND	0.0250							
ND   0.0250   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0250   ND   0.0500   ND   0.0500   ND   ND   ND   0.0500   ND   ND   0.0500   ND   ND   0.0500   ND   ND   ND   0.0500   ND   ND   ND   ND   ND   ND   ND	Ethylbenzene	ND	0.0250							
m-Xylene ND 0.0550	Toluene	ND	0.0250							
ND   0.0250   116   70-130   117   70-130   118   11	o-Xylene	ND	0.0250							
### 10.578   0.500   116   70-130   ####################################	p,m-Xylene	ND	0.0500							
Prepared   1,2-Dichloroethane-d4   0.465   0.500   93.0   70-130   111   70-130	Total Xylenes	ND	0.0250							
Prepared: 101/26/24   Analyzed: 10/29/24	Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Prepared: 10/26/24   Analyzed: 10/29/24	Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
enzene 2.53 0.0250 2.50 101 70-130 101 101 70-130 101 101 70-130 1	Surrogate: Toluene-d8	0.553		0.500		111	70-130			
hylbenzene 2.53 0.0250 2.50 101 70-130 101 70-130 1011	LCS (2443219-BS1)							Prepared: 1	0/26/24 Ana	alyzed: 10/29/24
Solution   2.55   0.0250   2.50   102   70-130	Benzene	2.53	0.0250	2.50		101	70-130			
Xylene   2.66   0.0250   2.50   106   70-130	Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Same	Toluene	2.55	0.0250	2.50		102	70-130			
10	o-Xylene	2.66	0.0250	2.50		106	70-130			
### ##################################	o,m-Xylene	5.34	0.0500	5.00		107	70-130			
### 1,2-Dichloroethane-d4	Total Xylenes	7.99	0.0250	7.50		107	70-130			
urrogate: Toluene-d8         0.555         0.500         111         70-130           Prepared: 10/26/24 Analyzed: 10/29/24           enzene         2.54         0.0250         2.50         102         70-130         0.691         23           thylohenzene         2.56         0.0250         2.50         103         70-130         1.45         27           sylene         2.59         0.0250         2.50         104         70-130         1.79         24           Xylene         2.69         0.0250         2.50         108         70-130         1.46         27           m-Xylene         5.37         0.0500         5.00         107         70-130         0.617         27           otal Xylenes         8.06         0.0250         7.50         108         70-130         0.897         27           urrogate: Bromofluorobenzene         0.596         0.500         119         70-130	Surrogate: Bromofluorobenzene	0.593		0.500		119	70-130			
CS Dup (2443219-BSD1)   Prepared: 10/26/24   Analyzed: 10/29/24	Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
enzene 2.54 0.0250 2.50 102 70-130 0.691 23 thylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 slutene 2.59 0.0250 2.50 104 70-130 1.79 24 Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 stal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 urrogate: Bromofluorobenzene 0.596 0.500 119 70-130	Surrogate: Toluene-d8			0.500		111	70-130			
thylbenzene     2.56     0.0250     2.50     103     70-130     1.45     27       pluene     2.59     0.0250     2.50     104     70-130     1.79     24       Xylene     2.69     0.0250     2.50     108     70-130     1.46     27       m-Xylene     5.37     0.0500     5.00     107     70-130     0.617     27       otal Xylenes     8.06     0.0250     7.50     108     70-130     0.897     27       urrogate: Bromofluorobenzene     0.596     0.500     119     70-130     0.897     27	LCS Dup (2443219-BSD1)							Prepared: 1	0/26/24 Ana	alyzed: 10/29/24
hylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 bluene 2.59 0.0250 2.50 104 70-130 1.79 24 Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 blal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 urrogate: Bromofluorobenzene 0.596 0.500 119 70-130	Benzene	2.54	0.0250	2.50		102	70-130	0.691	23	
Solutione     2.59     0.0250     2.50     104     70-130     1.79     24       Xylene     2.69     0.0250     2.50     108     70-130     1.46     27       m-Xylene     5.37     0.0500     5.00     107     70-130     0.617     27       otal Xylenes     8.06     0.0250     7.50     108     70-130     0.897     27       urrogate: Bromofluorobenzene     0.596     0.500     119     70-130     70-130	Ethylbenzene	2.56		2.50		103	70-130	1.45		
m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27  btal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27  urrogate: Bromofluorobenzene 0.596 0.500 119 70-130	Foluene	2.59		2.50		104	70-130	1.79	24	
stal Xylenes         8.06         0.0250         7.50         108         70-130         0.897         27           urrogate: Bromofluorobenzene         0.596         0.500         119         70-130         70-130	o-Xylene	2.69	0.0250	2.50		108	70-130	1.46	27	
urrogate: Bromofluorobenzene 0.596 0.500 119 70-130	o,m-Xylene	5.37	0.0500	5.00		107	70-130	0.617	27	
	Total Xylenes	8.06	0.0250	7.50		108	70-130	0.897	27	
urrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.6 70-130	Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
	Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			

0.500

0.555

70-130

111



Surrogate: Toluene-d8

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum11/1/2024 12:35:23PM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

Anal	vst.	и

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

Blank (2443219-BLK1)						Prepared: 10	)/26/24 Ana	lyzed: 10/29/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.578		0.500	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500	93.0	70-130			
Surrogate: Toluene-d8	0.553		0.500	111	70-130			
LCS (2443219-BS2)						Prepared: 10	0/26/24 Ana	lyzed: 10/29/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	87.9	70-130			
Surrogate: Bromofluorobenzene	0.588		0.500	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500	96.4	70-130			
Surrogate: Toluene-d8	0.567		0.500	113	70-130			
LCS Dup (2443219-BSD2)						Prepared: 10/26/24 Analyzed: 10/29/24		
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	85.1	70-130	3.25	20	
Surrogate: Bromofluorobenzene	0.599		0.500	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500	95.9	70-130			
Surrogate: Toluene-d8	0.573		0.500	115	70-130			



## **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	-
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/1/2024 12:35:23PM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum					11/1/2024 12:35:23PM
	Nonha			Analyst: NV					
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit	
Blank (2444008-BLK1)							Prepared: 1	0/28/24	Analyzed: 10/28/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.2		50.0		104	50-200			
LCS (2444008-BS1)							Prepared: 1	0/28/24	Analyzed: 10/28/24
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
urrogate: n-Nonane	50.4		50.0		101	50-200			
LCS Dup (2444008-BSD1)							Prepared: 1	0/28/24	Analyzed: 10/28/24
Diesel Range Organics (C10-C28)	248	25.0	250		99.0	38-132	3.80	20	
urrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2444058-BS1)

LCS Dup (2444058-BSD1)

Chloride

Chloride

Prepared: 10/29/24 Analyzed: 10/30/24

Prepared: 10/29/24 Analyzed: 10/30/24

20

### **QC Summary Data**

Pima Environmental Services-C PO Box 247 Plains TX, 79355-0247	arlsbad	Project Name: Project Number Project Manager	: 0	etelgeuse 19 I 1058-0007 om Bynum	Federal #6I	-I			Reported: 11/1/2024 12:35:23PM
1 11, 77555 02-17				300.0/9056A	A				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
Blank (2444058-BLK1) Chloride	ND	20.0					Prepared: 1	0/29/24 A	analyzed: 10/30/24

250

250

102

101

90-110

90-110

0.348

254

253

20.0

20.0

#### 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:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/01/24 12:35

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



**Project Information** 

Client: P	ima Er	viror	ment	al Se	ervic	es		Bill To			V. 1 -	L	ab Ų:	se Oni	y		T		TA	T	I	EPA Pr	ogram
Project:								Attention: Devon Energy		Lab	MO#	: ::	* 15	Job N	lumb	er	1D	2D	3D	Stand	dard	CWA	SDWA
Project N	1anagei	: To	m By	num				Address:		EC	1103	33	$\mathbf{Q}$	DID	28	ran				X			
Address:	5614	<u>۷. Lo</u>	vingt	on H	wy.			City, State, Zip			•			Analys	sis an	d Metho	d						RCRA
City, Stat	e, Zip	-lobb	s. NN	<i>1</i> . 88	240		- 3	Phone:												1.3			
Phone: 8							1.13	Email:		5	5											State	
Email: 1	tom@p	imac	oil.con	<u>n</u>		<del></del>	0.0000000 2010 6	Di Di+ 1 270 /pAPP242	7725020\	8 ≥	8	ដ	۱.	ا ۾ ا	8		5			NI	VI CO	UT AZ	TX
Report d	ue by:						1718	Pima Project # 1-379 (nAPP242	1120929)	្ត្រី	စ္တ	80	826	601	8		ž			X			
Time Sampled	Date Sampled	, N	latrix	No. Conta		Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос				Remarks	
8:03	10/2	3	S	1		S1-5'											х						
8:17						S2-5'			2														
8:24	1					S3-5'			3														
8:37						S4-5'			4														
8:47						S5-5 <sup>'</sup>			5														
G:56						S7-5'			0														
8:59		-				S8-5'			7														
Addition	al Instr	uctio	ns:	W	/ork	Order/Billing	g: 214	121826					-										
I, (field samp	oler), attes	t to the	validity	and au	thentic	ity of this sample.	I am av	vare that tampering with or intentionally mislabe	lling the sample	locati	on,				-	-						ey are sample	d or received
date or time	of collecti	on is co	nsidered	d fraud	and m	ay be grounds for	egal act	ion. Sampled by:						packed	in ice a	an avg tem	above	0 but le	ss than 6	°C on subs	equent day	s	
Relinquish	ed by: (Si	natur #1	tap	Y	Date	25:24	130	Received the (Sign) active)	10.25	.24	7imte	43	35	Rece	ived	on ice:	_	ab U	se On	ly			
Religiouish	ofoy: (Si	inatur Mr	<u>€)</u>		Date	25.24 Time	0/2	Received by: (Signature)	Date Jan	W	Time	15		T1_			<u>12</u>			<u> </u>			
Relinguish	di by: (Si				Dalle [///	25/24	230	Received by (Signature)	Date 10 - 28 - 2	14	Time	<u>:</u> α	)	AVG	Tem	p °C	4	)					
Sample Mat	rix: <b>S</b> - Soil	. <b>Sd</b> - Śc	olid, Sg -	Sludge	A - Ac	ueous, O · Other_		_	Containe	r Type	_						er gla	ss, v -	VOA			· · · · · · ·	
							unless	other arrangements are made. Hazardou												eport for	the anal	ysis of the a	bove
1								y with this COC. The liability of the laborato															



Printed: 10/28/2024 12:29:18PM

#### **Envirotech Analytical Laboratory**

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.

	no response concerning visus items within 2 i nours or		,			-	
Client:	Pima Environmental Services-Carlsbad	Date Received:	10/28/24 0	08:00	,	Work Order ID:	E410332
Phone:	(575) 631-6977	Date Logged In:	10/25/24 1	5:24		Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	11/01/24 1	7:00 (4 day TAT)			
1. Does th	Custody (COC)  The sample ID match the COC?  The number of samples per sampling site location match the comples dropped off by client or carrier?	tch the COC	Yes No Yes	Carrier: <u>C</u>	<u>Courier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
	urn Around Time (TAT)		***		Sampled by	not provide	d on COC
	COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by	not provide	d on coc.
7. Was a s	cooler ample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	Container	_					
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	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 no	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	el						
20. Were Sa	ineld sample labels filled out with the minimum info ample ID? ate/Time Collected? ollectors name?	ormation:	Yes Yes No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix	_					
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborator subcontract laboratory specified by the client and i	-	No NA	Subcontract Lab	h· NA		
Chent in	struction						

Date

Printed: 10/28/2024 12:58:05PM

#### **Envirotech Analytical Laboratory**

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.

	nental Services-Carlsbad	Date Received:	10/28/24 08:0		Work O	rder ID:	E410333
Chont.							
Phone: (575) 631-6977 Email: gio@pimaoil.cc		Date Logged In: Due Date:	10/25/24 15:3: 11/01/24 17:0		Logged	іп ву:	Caitlin Mars
Ellian. glo@pilliaon.co	0111	Due Date.	11/01/24 17.0	0 (4 day 1A1)			
Chain of Custody (COC	<u>n</u>						
1. Does the sample ID m	natch the COC?		Yes				
•	amples per sampling site location ma	tch the COC	Yes				
3. Were samples dropped	d off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the COC complet	te, i.e., signatures, dates/times, reque	ested analyses?	No	_			
5. Were all samples rece	ived within holding time?		Yes				
· ·	, such as pH which should be conducted				C	ommen	ts/Resolution
, and the second second	nold time, are not included in this disucss	ion.				ommen	13/ Kesolution
Sample Turn Around T	standard TAT, or Expedited TAT?		Yes		No of containers	and sa	mpled by missing
	standard IA1, or Expedited IA1?		108		on COC.		anprod of missing
Sample Cooler  7. Was a sample cooler r	agaivad?		Yes		on coc.		
8. If yes, was cooler rece			Yes				
•	<u> </u>						
• • •	eived intact, i.e., not broken?		Yes				
10. Were custody/securit	* *		No				
11. If yes, were custody/	•		NA				
Note: Thermal minutes of sam		re received w/i 15	Yes				
13. If no visible ice, reco	ord the temperature. Actual sampl	e temperature: 4°0	<u>C</u>				
Sample Container							
14. Are aqueous VOC sa	= =		No				
15. Are VOC samples co			NA				
=	s than 6-8 mm (pea sized or less)?		NA				
= ' '	) included for VOC analyses?		NA				
_	es collected in the correct containers		Yes				
** *	me/weight or number of sample conta	iners collected?	Yes				
Field Label							
20. Were field sample la Sample ID?	bels filled out with the minimum inf	ormation:	Yes				
Date/Time Colle	cted?		Yes				
Collectors name			No				
Sample Preservation			- 10				
21. Does the COC or fie	ld labels indicate the samples were p	reserved?	No				
22. Are sample(s) correc	tly preserved?		NA				
24. Is lab filteration requ	rired and/or requested for dissolved	metals?	No				
Multiphase Sample Ma	trix						
	e more than one phase, i.e., multiph	ase?	No				
_	specify which phase(s) is to be anal		NA				
Subcontract Laborator		•					
•	Y. I to get sent to a subcontract laborate	าครว	No				
	boratory specified by the client and	-		bcontract Lab	v no		
	boratory specified by the effent and	ii so wiio:	TAA SU	ocomiaci Lai	). 11a		
Client Instruction							

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





## envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Federal #6H

Work Order: E411040

Job Number: 01058-0007

Received: 11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

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

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

Date Reported: 11/6/24

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Federal #6H

Workorder: E411040

Date Received: 11/6/2024 7:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: Betelgeuse 19 Federal #6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Federal #6H 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 reguarding 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

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**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Donoutoda
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/06/24 15:35

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
C1-1.5'	E411040-01A Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
W1-1.5'	E411040-02A Soil	11/04/24	11/06/24	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/6/2024 3:35:26PM

#### C1-1.5' E411040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2445057
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2445058
Diesel Range Organics (C10-C28)	736	50.0	2	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	434	100	2	11/06/24	11/06/24	
Surrogate: n-Nonane		83.7 %	50-200	11/06/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2445061
Chloride	1590	20.0	1	11/06/24	11/06/24	

Chloride

### Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/6/2024 3:35:26PM

#### W1-1.5'

#### E411040-02 Reporting Analyte Limit Dilution Analyzed Notes Result Prepared Analyst: SL Batch: 2445057 mg/kg mg/kg Volatile Organics by EPA 8021B 11/06/24 11/06/24 ND 0.0250 Benzene 1 11/06/24 11/06/24 Ethylbenzene ND 0.0250ND 0.02501 11/06/24 11/06/24 Toluene 1 11/06/24 11/06/24 o-Xylene ND 0.02501 11/06/24 11/06/24 ND 0.0500 p,m-Xylene 11/06/24 11/06/24 1 Total Xylenes ND 0.025011/06/24 11/06/24 90.0 % 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: SL Batch: 2445057 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 11/06/24 ND 20.0 1 11/06/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 93.2 % 11/06/24 11/06/24 70-130 mg/kg mg/kg Analyst: NV Batch: 2445058 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 11/06/24 11/06/24 Diesel Range Organics (C10-C28) ND 11/06/24 11/06/24 Oil Range Organics (C28-C36) 50.0 1 11/06/24 11/06/24 Surrogate: n-Nonane 95.6 % 50-200 Analyst: DT Batch: 2445061 Anions by EPA 300.0/9056A mg/kg mg/kg

20.0

1

11/06/24

11/06/24

614



Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

,			<u> </u>	
	Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
	PO Box 247	Project Number:	01058-0007	•
	Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/6/2024 3:35:26PM

PO Box 247 Plains TX, 79355-0247		Project Number: Project Manager:		.058-0007 om Bynum					11/6/2024 3:35:26PM			
Volatile Organics by EPA 8021B									Analyst: SL			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2445057-BLK1)						I	Prepared: 1	1/06/24 An	alyzed: 11/06/24			
Benzene	ND	0.0250										
Ethylbenzene	ND	0.0250										
Toluene	ND	0.0250										
o-Xylene	ND	0.0250										
p,m-Xylene	ND	0.0500										
Total Xylenes	ND	0.0250										
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130						
LCS (2445057-BS1)						I	Prepared: 1	1/06/24 An	alyzed: 11/06/24			
Benzene	4.32	0.0250	5.00		86.3	70-130						
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130						
Toluene	4.57	0.0250	5.00		91.4	70-130						
o-Xylene	4.64	0.0250	5.00		92.8	70-130						
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130						
Total Xylenes	14.0	0.0250	15.0		93.5	70-130						
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130						
LCS Dup (2445057-BSD1)						I	Prepared: 1	1/06/24 An	alyzed: 11/06/24			
Benzene	4.42	0.0250	5.00		88.4	70-130	2.38	20				
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130	3.54	20				
Toluene	4.71	0.0250	5.00		94.2	70-130	3.06	20				
o-Xylene	4.79	0.0250	5.00		95.9	70-130	3.27	20				
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130	3.60	20				
Total Xylenes	14.5	0.0250	15.0		96.8	70-130	3.49	20				

70-130



Surrogate: 1-Chloro-4-fluorobenzene-FID

## **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	Reported:
PO Box 247	Project Number:	01058-0007	-
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/6/2024 3:35:26PM

Plains TX, 79355-0247		Project Manage		om Bynum				11/	6/2024 3:35:26PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445057-BLK1)							Prepared: 1	1/06/24 Anal	yzed: 11/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2445057-BS2)							Prepared: 1	1/06/24 Anal	yzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			
LCS Dup (2445057-BSD2)							Prepared: 1	1/06/24 Anal	yzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130	1.33	20	

95.2

70-130

7.62

## **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Betelgeuse 19 Federal #6HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum11/6/20243:35:26PM

Plains 1X, /9355-024/		Project Manage	r: 10	m Bynum					11/6/2024 3:35:26PN
	Nonhal	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445058-BLK1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Turrogate: n-Nonane	44.5		50.0		89.0	50-200			
LCS (2445058-BS1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132			
'urrogate: n-Nonane	47.1		50.0		94.2	50-200			
LCS Dup (2445058-BSD1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132	5.28	20	
Jurrogate: n-Nonane	48.0		50.0		96.0	50-200			

LCS Dup (2445061-BSD1)

Chloride

Prepared: 11/06/24 Analyzed: 11/06/24

20

### **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	(	Betelgeuse 19 F 01058-0007 Fom Bynum	ederal #6	H			<b>Reported:</b> 11/6/2024 3:35:26PM
		Anions	by EPA	300.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445061-BLK1)							Prepared: 1	1/06/24 A	nalyzed: 11/06/24
Chloride	ND	20.0							
LCS (2445061-BS1)							Prepared: 1	1/06/24 A	nalyzed: 11/06/24
Chloride	252	20.0	250		101	90-110			

250

20.0

100

90-110

1.01

250

#### 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**

ſ	Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
١	PO Box 247	Project Number:	01058-0007	Reported:
١	Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/06/24 15:35

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released t	Project Information
to Imaging:	Client: Pima Envir Project: Betelget Project Manager: Address: 5614 N.
5/21/20	City, State, Zip Ho Phone: 806-782-1 Email: tom@pim
$\sim$	I Branco acade alcono lacco.

Chain of Custody

Page	1	of	1	
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lient: P	ma Env	ronment	tal Servi	ces		Bill To	:	4.5		La	b Us	e On	ly	Million	y 10			TA	\T		EPA Pr	ogram
			Federal #	#6H		Attention: Devon Energy	<del>-:-</del>	Lab	wo#	, , ,		Job I				1D	2D	3D	Stand	dard	CWA	SDWA
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	5614 N.					City, State, Zip	<del></del>					Analy	sis ar	nd Met	hod							RCRA
	e, zip <u>H</u> 0 306-782-		И. 88240	<u> </u>		Phone:	<u> </u>	ا							ı				<u> </u>		State	
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Sampled	Sampled	Matrix	Containers	Sample ID	_		Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride			верос	всрос				Remarks	
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amples is	applicable c	nly to thos	e samples r	eceived by the la	borato	ry with this COC. The liability of the laboratory	is limited to	the a	moun	t paid	for o	n the r	eport									ŀ

ent or disposed of at the client expense. The report for the analysis of the above for on the report.

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Printed: 11/6/2024 9:27:14AM

#### **Envirotech Analytical Laboratory**

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.

COC? er sampling site location match the client or carrier? gnatures, dates/times, requested armin holding time? by which should be conducted in the figure not included in this disucssion.  T) I TAT, or Expedited TAT?  good condition? act, i.e., not broken? resent? seals intact? If yes, the recorded temp is 4°C, i.e., 6° ion is not required, if samples are received temperature. Actual sample temperature.	Yes Yes Yes Yes Yes nalyses? No Yes Yes Yes Yes Yes No NA Yes Yes Yes	4 14:40 4 17:00 (0 day TAT) Carrier: <u>1</u>	<u>Courier</u>	Es/Resolution ed on COC.
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mperature. Actual sample tempe				
	erature: 4°C			
resent?	No			
n VOA Vials?	NA			
8 mm (pea sized or less)?	NA			
• ,	NA			
•	Yes			
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d out with the minimum information				
	108			
indicate the samples were preserve	ed? No			
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which phase(s) is to be analyzed:	NA			
-		Subcontract La	ab: NA	
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e di di	ed out with the minimum information indicate the samples were preserved?  I/or requested for dissolved metals?  I/ohan one phase, i.e., multiphase?  which phase(s) is to be analyzed?	cted in the correct containers?  Set the or number of sample containers collected?  Yes the out with the minimum information:  Yes Yes Yes Yes Yes  Set indicate the samples were preserved?  No erved?  No requested for dissolved metals?  No which phase(s) is to be analyzed?  No NA  Seent to a subcontract laboratory?  No	cted in the correct containers?  State of the correct containers?  State of out with the minimum information:  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	cted in the correct containers?  State of the correct containers?  State of out with the minimum information:  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye

Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

### Pima Environmental Services-Carlsbad

Project Name: Betelgeuse 19 Fed 6H

Work Order: E501142

Job Number: 01058-0007

Received: 1/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

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

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

Date Reported: 1/22/25

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Betelgeuse 19 Fed 6H

Workorder: E501142

Date Received: 1/22/2025 5:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/22/2025 5:00:00AM, under the Project Name: Betelgeuse 19 Fed 6H.

The analytical test results summarized in this report with the Project Name: Betelgeuse 19 Fed 6H 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Raina Schwanz

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	Donoutoda
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/22/25 14:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E501142-01A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CS2	E501142-02A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CS3	E501142-03A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CS4	E501142-04A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CS5	E501142-05A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CS6	E501142-06A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW1	E501142-07A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW2	E501142-08A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW3	E501142-09A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW4	E501142-10A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW5	E501142-11A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.
CSW6	E501142-12A	Soil	01/17/25	01/22/25	Glass Jar, 2 oz.

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS1 E501142-01

		ECUII IZ UI				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		84.8 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		109 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2504068
Chloride	791	20.0	1	01/22/25	01/22/25	

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS2

		Domontino				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		86.0 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		111 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2504068
Chloride	396	20.0	1	01/22/25	01/22/25	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS3

Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	47.3	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		112 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2504068



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS4

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		86.3 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		101 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2504068
· · · · · · · · · · · · · · · · · · ·	813	20.0	1	01/22/25	01/22/25	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS5

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		85.5 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		111 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: AK		Batch: 2504068
Chloride	343	20.0	1	01/22/25	01/22/25	<u> </u>



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CS6

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		85.7 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		115 %	50-200	01/22/25	01/22/25	
Aniona by EDA 200 0/0056 A	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2504068
Anions by EPA 300.0/9056A						



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW1

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		lyst: SL	y 20u	Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.3 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	41.6	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		117 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2504068
Chloride	766	20.0	1	01/22/25	01/22/25	<del></del>



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW2

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.8 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	25.7	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		117 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2504068
· · · · · · · · · · · · · · · · · · ·	597	20.0		01/22/25	01/22/25	<u> </u>



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW3

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		86.6 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	33.6	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		125 %	50-200	01/22/25	01/22/25	
Aniona by EDA 200 0/0056 A	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2504068
Anions by EPA 300.0/9056A						



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Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		88.1 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	40.0	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		123 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2504068
	543	20.0	-	01/22/25	01/22/25	· · · · · · · · · · · · · · · · · · ·



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW5

	Reporting				
Result	Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: SL		Batch: 2504073
ND	0.0250	1	01/22/25	01/22/25	
ND	0.0250	1	01/22/25	01/22/25	
ND	0.0250	1	01/22/25	01/22/25	
ND	0.0250	1	01/22/25	01/22/25	
ND	0.0500	1	01/22/25	01/22/25	
ND	0.0250	1	01/22/25	01/22/25	
	86.9 %	70-130	01/22/25	01/22/25	
mg/kg	mg/kg	Analyst: SL			Batch: 2504073
ND	20.0	1	01/22/25	01/22/25	
	96.5 %	70-130	01/22/25	01/22/25	
mg/kg	mg/kg	An	alyst: NV		Batch: 2504067
32.2	25.0	1	01/22/25	01/22/25	
ND	50.0	1	01/22/25	01/22/25	
	127 %	50-200	01/22/25	01/22/25	
			Analyst: AK		2504060
mg/kg	mg/kg	An	alyst: AK		Batch: 2504068
	mg/kg ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           mg/kg         mg/kg           MD         20.0           96.5 %         mg/kg           mg/kg         mg/kg           32.2         25.0           ND         50.0	mg/kg         mg/kg         An           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           86.9 %         70-130           mg/kg         mg/kg         An           ND         20.0         1           96.5 %         70-130         1           mg/kg         mg/kg         An           32.2         25.0         1           ND         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         01/22/25           ND         0.0250         1         01/22/25           ND         0.0250         1         01/22/25           ND         0.0250         1         01/22/25           ND         0.0500         1         01/22/25           ND         0.0250         1         01/22/25           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         01/22/25           mg/kg         mg/kg         Analyst: NV           mg/kg         mg/kg         Analyst: NV           32.2         25.0         1         01/22/25           ND         50.0         1         01/22/25	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         01/22/25         01/22/25           ND         0.0250         1         01/22/25         01/22/25           ND         0.0250         1         01/22/25         01/22/25           ND         0.0500         1         01/22/25         01/22/25           ND         0.0250         1         01/22/25         01/22/25           ND         0.0250         1         01/22/25         01/22/25           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         01/22/25         01/22/25           mg/kg         mg/kg         Analyst: SL         01/22/25         01/22/25           mg/kg         mg/kg         Analyst: NV         01/22/25         01/22/25           MD         50.0         1         01/22/25         01/22/25           ND         50.0         1         01/22/25         01/22/25



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

#### CSW6

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2504073
Benzene	ND	0.0250	1	01/22/25	01/22/25	
Ethylbenzene	ND	0.0250	1	01/22/25	01/22/25	
Toluene	ND	0.0250	1	01/22/25	01/22/25	
o-Xylene	ND	0.0250	1	01/22/25	01/22/25	
p,m-Xylene	ND	0.0500	1	01/22/25	01/22/25	
Total Xylenes	ND	0.0250	1	01/22/25	01/22/25	
Surrogate: 4-Bromochlorobenzene-PID		87.4 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	Ana	Analyst: SL		Batch: 2504073
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/25	01/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	01/22/25	01/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	Ana	Analyst: NV		Batch: 2504067
Diesel Range Organics (C10-C28)	28.4	25.0	1	01/22/25	01/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/25	01/22/25	
Surrogate: n-Nonane		122 %	50-200	01/22/25	01/22/25	
Anions by EPA 300.0/9056A		mg/kg	Ana	alyst: AK		Batch: 2504068
Chloride	393	20.0	1	01/22/25	01/22/25	•



Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

Plains TX, 79355-0247		Project Manager:		m Bynum					1/22/2025 2:57:53PM	
		Volatile Organics by EPA 8021B						Analyst: SL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2504073-BLK1)						]	Prepared: 0	1/21/25 Ar	nalyzed: 01/21/25	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130				
LCS (2504073-BS1)						]	Prepared: 0	1/21/25 Ar	nalyzed: 01/21/25	
Benzene	4.60	0.0250	5.00		92.0	70-130				
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130				
Toluene	4.62	0.0250	5.00		92.4	70-130				
o-Xylene	4.53	0.0250	5.00		90.5	70-130				
o,m-Xylene	9.23	0.0500	10.0		92.3	70-130				
Total Xylenes	13.8	0.0250	15.0		91.7	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130				
LCS Dup (2504073-BSD1)						]	Prepared: 0	1/21/25 Ar	nalyzed: 01/22/25	
Benzene	4.66	0.0250	5.00		93.2	70-130	1.27	20		
Ethylbenzene	4.62	0.0250	5.00		92.3	70-130	1.69	20		
Toluene	4.71	0.0250	5.00		94.1	70-130	1.87	20		
-Xylene	4.61	0.0250	5.00		92.3	70-130	1.93	20		
o,m-Xylene	9.39	0.0500	10.0		93.9	70-130	1.68	20		
Total Xylenes	14.0	0.0250	15.0		93.3	70-130	1.76	20		



Surrogate: 1-Chloro-4-fluorobenzene-FID

### **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	Reported:
PO Box 247	Project Number:	01058-0007	_
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

Plains TX, 79355-0247		Project Manage		m Bynum				1/2	22/2025 2:57:53PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2504073-BLK1)							Prepared: 0	1/21/25 Anal	yzed: 01/21/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			
LCS (2504073-BS2)						]	Prepared: 0	1/21/25 Anal	yzed: 01/22/25
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			
LCS Dup (2504073-BSD2)						]	Prepared: 0	1/21/25 Anal	yzed: 01/22/25
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130	6.67	20	

70-130



### **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Fed 6H	Reported:
PO Box 247	Project Number:	01058-0007	•
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/22/2025 2:57:53PM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum					1/22/2025 2:57:53PI
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2504067-BLK1)							Prepared: 0	1/21/25	Analyzed: 01/21/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.0		50.0		116	50-200			
LCS (2504067-BS1)							Prepared: 0	1/21/25	Analyzed: 01/21/25
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	60.4		50.0		121	50-200			
LCS Dup (2504067-BSD1)							Prepared: 0	1/21/25	Analyzed: 01/22/25
Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132	1.13	20	
Gurrogate: n-Nonane	61.1		50.0		122	50-200			



Chloride

Chloride

LCS Dup (2504068-BSD1)

### **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	D Box 247 Project Number: 01058-0007								<b>Reported:</b> 1/22/2025 2:57:53PM
		Anions l	oy EPA (	300.0/9056	1				Analyst: AK
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2504068-BLK1)							Prepared: 0	1/21/25 A	analyzed: 01/22/25
Chloride	ND	20.0							
LCS (2504068-BS1)							Prepared: 0	1/21/25 A	analyzed: 01/22/25

250

250

90-110

90-110

0.0735

Prepared: 01/21/25 Analyzed: 01/22/25

101

101

252

252

20.0

20.0

### 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:	Betelgeuse 19 Fed 6H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/22/25 14:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information			Invoice Informat	ion		T		La	b Us	e On	lv				TA	T		State				
lient: 7	mae	<b>Win</b>	0000	ntal	Services	Company: Devon			Lah	WO#			Job I		er	_	1DT		3D Std	NMI CO	TUIC	TX
roject N	ame: Be-	elge	use	19 4	ed 6H	Address:				100			010			7	Z			X		
Project N	lanager:	JUN .	by	dun	1	City, State, Zip:																
Address:	5614	O lor	ing	ton	HWY	Phone:					Web.		Ana	lysis	and	Meti	nod				Progran	
City, State	e, Zip: HO	bbg	Mn	7889	240	Email:														SDWA	CWA	RCRA
	0m 00			on		Miscellaneous: 379	Miscellaneous: 379			8015	8015			0			s	50		Compliance PWSID #	Y	or N
					Sample	Information				RO by	RO by	8021	8260	e 300.	NN.	05 - TX	Meta	nion P				
Time Sampled	Date Sample	Mat	rix	No. of Containers		Sample ID	E O	Filter	Lab umber	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC	TCEQ 1005	RCRA 8 Metals	Cation/Anion Pkg		Re	emarks	
7:32	1/1	5	5		SI				1						X					***************************************		
7:36					csa				2													
7:38					CS3				3										-			
7:41					CS4				4													**************************************
7:46					CS5				5						L							
7:51					CS6	Same and the second			ه													
7:53					CSW1				7													
7:51					cswa	<b>)</b>			8													·
7:59					csw3	3			9													
8:05					csw	4			10													
Addition	al Instruct	ons:				Billing#2142	1820	0														
, (field sam) Sampled by:		he validit	y and a	uthenticity	of this sample. I a	m aware that tampering with or intentionally misla	beling the s	anple l	cation, d	date or	time of	collec	tion is	consid	ered fr	raud an	nd may	be gro	unds for leg	of action.		
	ed by: (Signa		co	Date		:03pm Jasmine Alvan		\ \ /	17	Time	100	מים								st be received on it temp above 0 but		
Jasm	ed by: (Signa	arad	0	Date	Tim	Received by (Signature)	ales		25		+34	-			Rec	eived	l on i	ice:	Lab U	se Only		
	ed by (Signa	. /1	ale	& Date	11 J5 Tim	Received by: (Signature)		ate 1.2	1.25	Time	700	2			<u>T1</u>	**********	,		<u>T2</u>	<u>T</u>	3	*************
Relinfujshed by: (Signature)  Date  1.21.23 Time  Received by: (Signature)  1.21.23 Received by: (Signature)  Light Received by: (Signature)  Light Received by: (Signature)  Light Received by: (Signature)  Light Received by: (Signature)			11	ate -7:	-25	Time	-	0			AVO	G Ten	np °C	4								

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

Client Information Client: PIMA environmental Project Name: Deterpouse 19 Fed 6H				TT	Invoice Informat	ion	-	T		La	b Us	e On	ly				T	AT		Stat	e	
Client:	ima e	myird	Menta	1	-	mpany: Devon			Lab	WO#				Num				ID 2D 3D Std			CO UT	TX
Project N	lame: (#E+E)	m by	num	3 64		dress: :y, State, Zip:			- 155	011	42		Old	58	-00	70	K	K		LX.		
	5614 N			Hwy	-	one:					englis.	ATT-10	Ana	lysis	and	Met	hod			EI	A Progra	am
City, Stat	e, Zip: HOb	os, Nm	1889	40	Em	ail:														SDWA	CWA	RCRA
Phone: 5	75-961	1-774	10		Misc	cellaneous: 379				300										. "	1	- I
emanks.	om Opi	IIGON	·COM			011		-		8015	8015			0			ls	100		Complian PWSID #	ce Y	or N
-			·····	Sam	ple Informatio	on				KO by	yd OS	8023	8260	300	NN.	DS-T	Meta	nion P		770.0		
Time Sampled	Date Sampled	Matrix	No. of Conteners			Sample ID	Field	Filter	Lab umber	DRO/ORO	GRO/DRO	BTEX by 8023	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion			Remarks	
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		Ĭ		CSU					10						1							
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						rrangements are made. Hazardo The liability of the laboratory is								of at	the cl	ient e	xpens	e. The	report for	the analysis	of the abo	ve samples



Printed: 1/22/2025 7:49:00AM

### **Envirotech Analytical Laboratory**

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.

	to response concerning more remaining a nound of			•			
Client:	Pima Environmental Services-Carlsbad	Date Received:	01/22/25 0	05:00	V	Vork Order ID:	E501142
Phone:	(575) 631-6977	Date Logged In:	01/21/25 1	.5:11	L	logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	01/22/25 1	17:00 (0 day TAT)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location man	tch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>		
4. Was the	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	I samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes			Comment	s/Resolution
Sample T	urn Around Time (TAT)	on.					
	COC indicate standard TAT, or Expedited TAT?		Yes		No of contai	ners and sar	mpled by not
Sample C			140		provided on		
	ample cooler received?		Yes		provided on	coc.	
	vas cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
			Yes				
	custody/security seals present?		No				
• •	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4°0	<u>L</u>				
Sample C							
	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?	_	NA				
	on-VOC samples collected in the correct containers		Yes				
	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info	ormation:	<b>V</b>				
	umple ID? ate/Time Collected?		Yes				
	ollectors name?		Yes No				
	reservation_		140				
	he COC or field labels indicate the samples were pr	reserved?	No				
	mple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	he sample have more than one phase, i.e., multipha	se?	Na				
	does the COC specify which phase(s) is to be analy		No				
		yzeur	NA				
	act Laboratory						
	mples required to get sent to a subcontract laborato subcontract laboratory specified by the client and it	-	No NA	Subcontract Lab	b: NA		
Client In	<u>struction</u>						
							()

Date

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 426949

### **QUESTIONS**

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	426949
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2427725929
Incident Name	NAPP2427725929 BETELGEUSE 19 FEDERAL #006H @ 30-015-42031
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42031] BETELGEUSE 19 FEDERAL #006H

Location of Release Source							
Please answer all the questions in this group.							
Site Name	BETELGEUSE 19 FEDERAL #006H						
Date Release Discovered	10/02/2024						
Surface Owner	Federal						

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 11 BBL   Recovered: 0 BBL   Lost: 11 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Tubing flow line cracked at wellhead. 11 bbls oil spilled onto pad. Recovered volumes not available at notification.

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 426949

QUESTI	IONS (continued)
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 426949 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 426949

### **QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	15500	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1170	
GRO+DRO (EPA SW-846 Method 8015M)	736	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	10/31/2024	
On what date will (or did) the final sampling or liner inspection occur	01/17/2025	
On what date will (or was) the remediation complete(d)	01/10/2025	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	1132	
What is the estimated volume (in cubic yards) that will be remediated	30	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 4

Action 426949

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: EHS Professional
Email: jim.raley@dvn.com
Date: 01/31/2025

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 5

Action 426949

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

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

QUESTIONS, Page 6

Action 426949

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	421146
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	2295

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	1132			
What was the total volume (cubic yards) remediated	30			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	0			
What was the total volume (in cubic yards) reclaimed	0			
Summarize any additional remediation activities not included by answers (above)	Impacted soils removed.			

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 01/31/2025

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

QUESTIONS, Page 7

Action 426949

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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

CONDITIONS

Action 426949

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426949
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
nvele	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	5/21/2025