

PREPARED BY: PIMA ENVIRONMENTAL SERVICES, LLC

PREPARED FOR: DEVON ENERGY PRODUCTION CO, LP

BETELGEUSE 19 FEDERAL #6H
Incident ID nAPP2427725929

Remediation Plan Report

November 20, 2024

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

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

Re: Remediation Plan Report
Betelgeuse 19 Federal #6H
API # 30-015-42031
NMOCD Incident ID <u>nAPP2427725929</u>
ULSTR - E - 20 - 19S - 31E 1699 FNL 265 FWL

Eddy County, NM

GPS Coordinates: Latitude 32.6484909 Longitude -103.8992157

This crude oil 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

<u>**nAPP2427725929:**</u> 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 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

Summary:

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.

Countermeasures to Denial



Devon proposes the following remediation plan to counter the previous denial:

- 1. Perform a scrape of all wet, discolored areas outside of the S4 area that has already been remediated. The area should be scraped to a depth of approximately 6-8" bgs or until all wet, discolored soil areas have been removed.
- 2. The area of concern measures approximately 2,295 square feet and will be scraped to a depth of approximately 8" bgs. The volume of soil to be scraped calculates to approximately 60 cubic yards.
- 3. A 48-Hour notification of sampling event will be submitted for the confirmation sampling of the scraped area. 5-point composite samples will be collected from the base and wall of the scraped area. Twelve samples will be collected from the base and 4 samples will be collected from the walls of the scraped area.
- 4. All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. A Proposed Sampling-Excavation Map can be found in Figure 8.
- 5. If all sample results are reported to be under the regulatory limits of the 51-100-foot depth to groundwater section of Table 1, the scraped area will be backfilled and repacked for normal day-to-day traffic.
- 6. If sample results show that contamination above the regulatory limits of the 51-100-foot depth to groundwater section of Table 1 still exists, the area(s) of concern will be further remediated then steps 3 and 4 will be repeated.
- 7. After all samples have been reported to be under the regulatory limits of Table 1, a final remediation closure report will be drafted and submitted to the Portal for review/approval.

Devon has complied with the applicable requirements set forth in 19.15.29.12 NMAC and requests that this remediation plan report for incident ID nAPP2427725929 be approved.

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

Devon Energy Production – Jim Raley at 575-689-7597 or jim.raley@dvn.com.

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

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Delineation Map
- 5- Data Tables
- 6- Excavation Map
- 7- Confirmation Sample Map
- 8- Proposed Sampling-Excavation Map

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

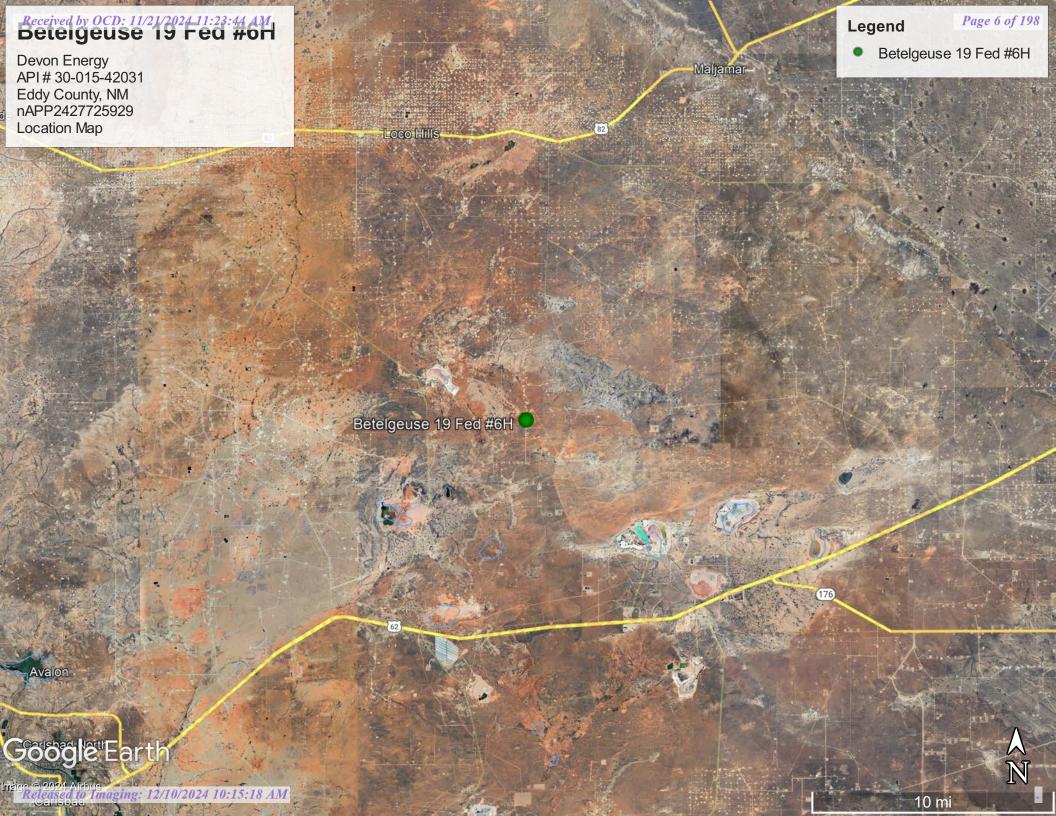
Delineation Map

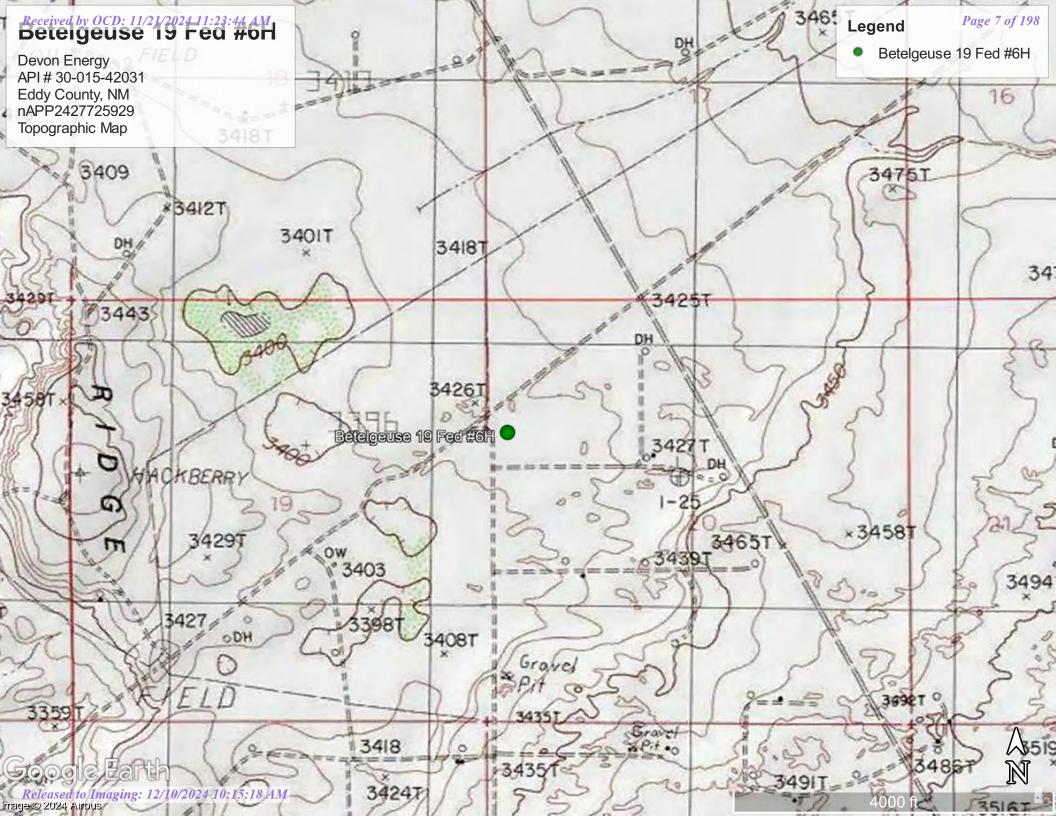
Data Tables

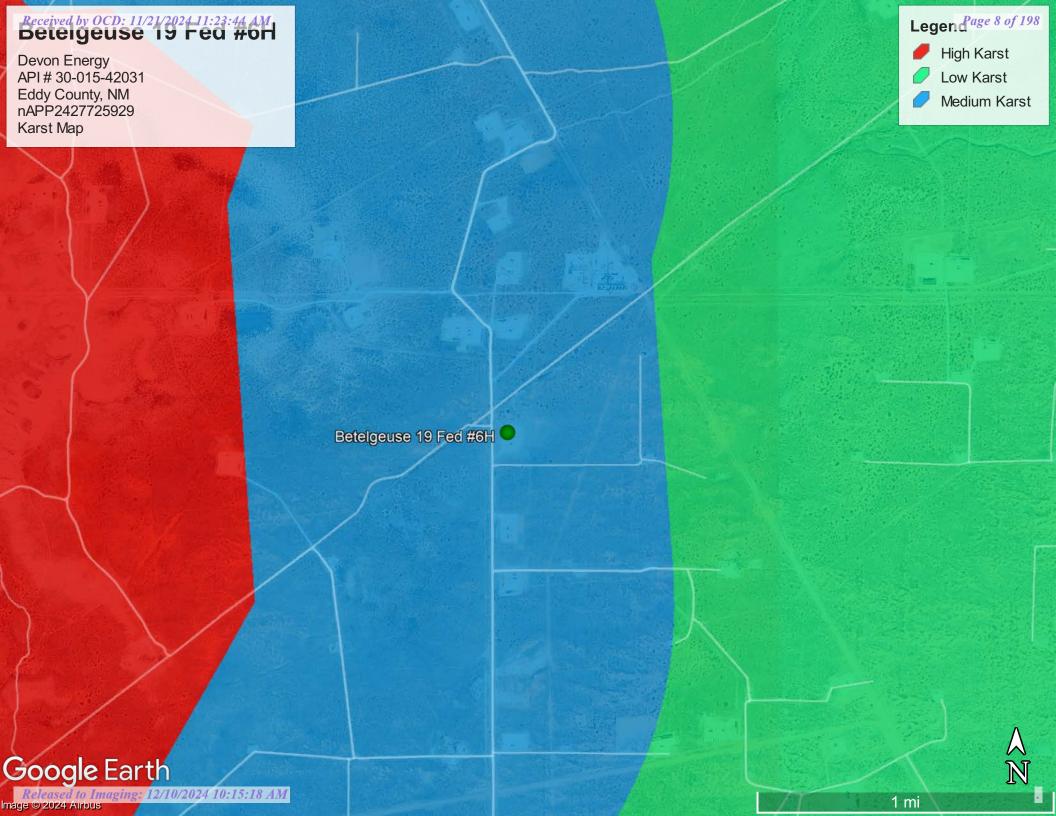
Excavation Map

Confirmation Sample Map

Proposed Sampling-Excavation Map







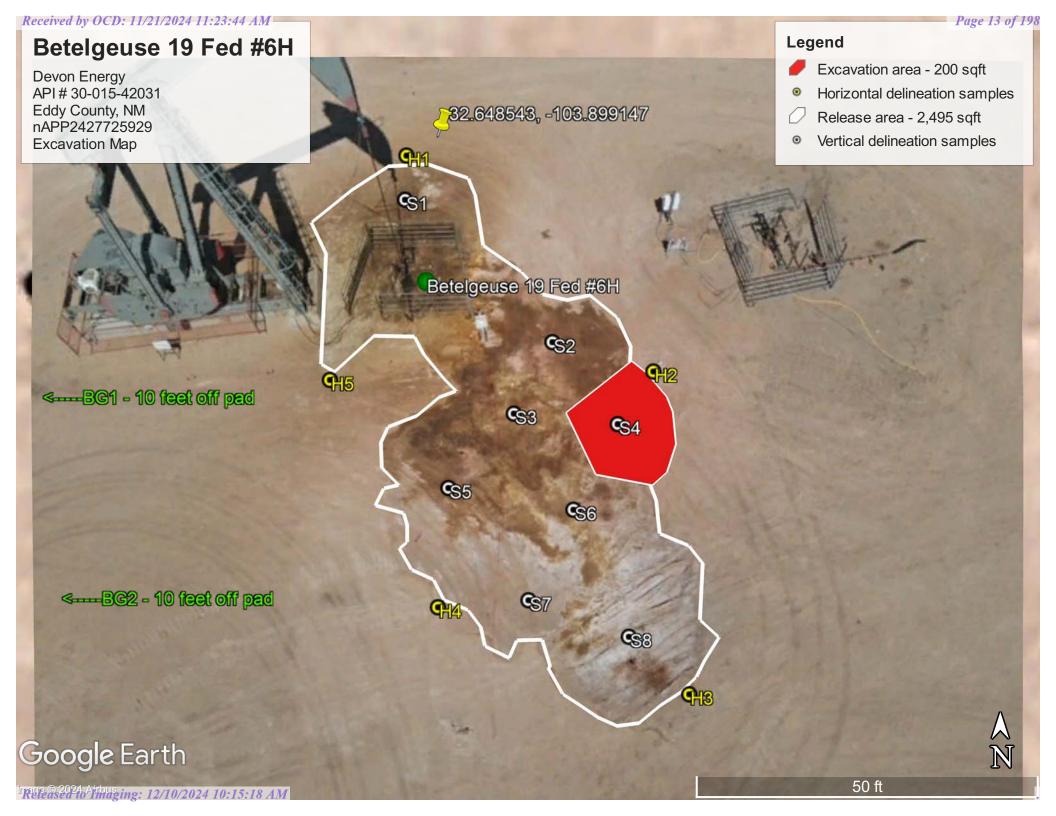


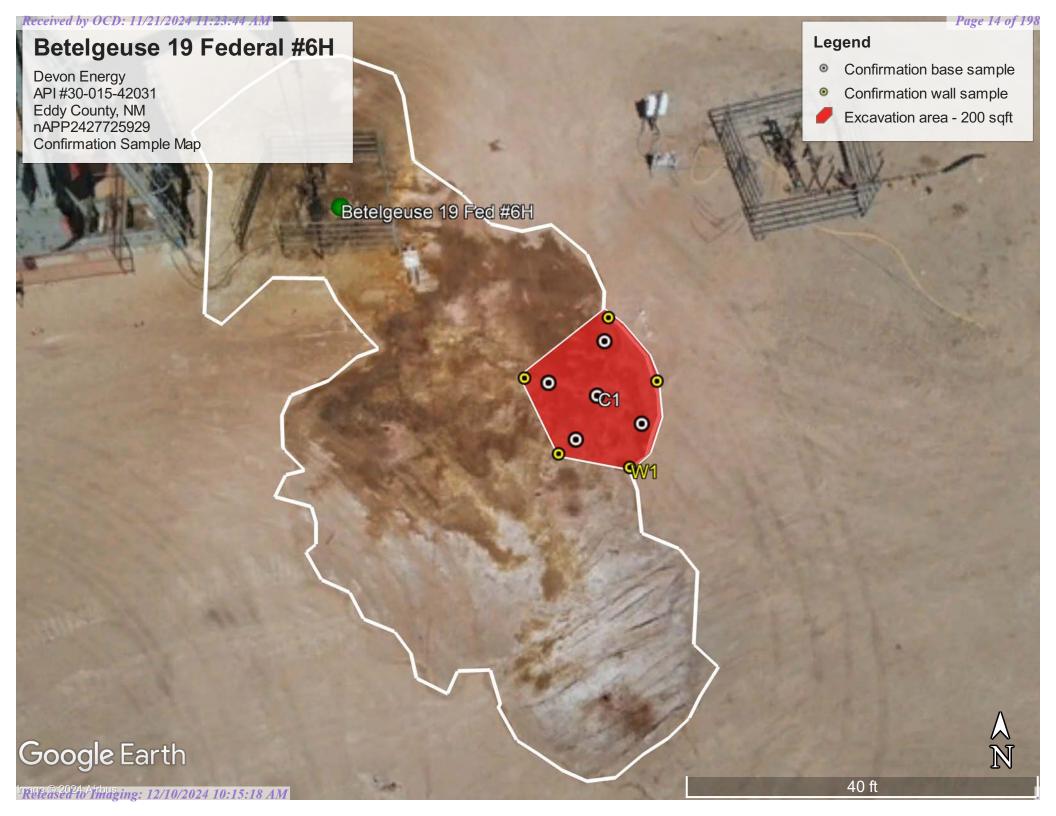
	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
	DI	EVON ENER	GY - Bete	lgeuse 19 Fo	ederal #6F	l - nAPP242	7725929		
	NM Approved Laboratory Results								
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
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'	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'	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 (BCS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
	10/10/0001	(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')								
	DI	EVON ENER	GY - Bete	lgeuse 19 F	ederal #6H	l - nAPP242	7725929		
			NM Ap	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
S1-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S2-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S3-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S4-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S5-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S6-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S7-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND
S8-5'	10/23/2024	5'	ND	ND	ND	ND	ND	ND	ND

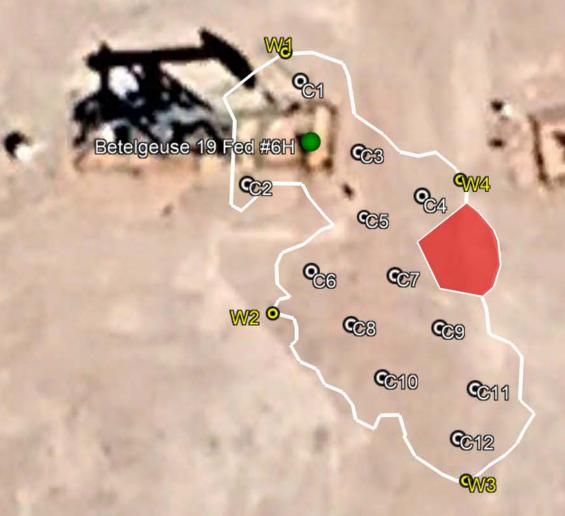
	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
	DEVON ENERGY - Betelgeuse 19 Federal #6H - nAPP2427725929								
	NM Approved Laboratory Results								
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
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	614





Received by OCD: 11/21/2024_11:23:44 AM Detelgeuse 19 Fed #6H

Devon Energy API#30-015-42031 Eddy County, NM nAPP2427725929 Proposed Sampling-Excavation Map





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- Composite base samples
- Composite wall samples
- Excavation area 200 sqft
- Release area 2,495 sqft





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		Depth Water	
<u>CP 01943 POD1</u>		СР	ED	NW	SW	NW	20	19S	31E	603217.4	3612883.9		37	55		
<u>CP 01941 POD1</u>		CP	ED	SW	NE	NE	29	19S	31E	604524.2	3611512.8		1856	55	54	1
<u>CP 01907 POD1</u>		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.

^{*} UTM location was derived from PLSS - see Help



z	OSE POD NO. (W POD 1 (TW-)		WELL TAG ID NO	0.		OSE FILE NO(S).			
CATIO	WELL OWNER	NAME(S)			7777			PHONE (OPTION 575-748-18.				
VELL LO	WELL OWNER 1 6488 7 River	MAILING	ADDRESS					CITY Artesia		STATE NM	88210	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		DI TITUDE NGITUDE	32 103	MINUTES 38 53	SECON 55.5	2 N	1 1 1 1 1 1 1 1	REQUIRED: ONE TEN	TH OF A SEC	COND	
I. GEN		RELATIN	G WELL LOCATION TO T19S R31E NMP		ESS AND COMMO	ON LANDMA	ARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAIL	ABLE	
	LICENSE NO. 1249		NAME OF LICENSED		ackie D. Atkin	ns			NAME OF WELL DR Atkins Eng			nc.
	DRILLING STAT 4/6/202		DRILLING ENDED 4/9/2023		MPLETED WELL (ary Well Mate			LE DEPTH (FT) ±55	DEPTH WATER FIR:	ST ENCOUN N/A	TERED (FT)	
Z	COMPLETED W	ELL IS:	ARTESIAN	/ DRY HOLE	E SHALL	OW (UNCO	NFINED)		WATER LEVEL PLETED WELL N	/A DA	ATE STATIC ! 4/18/	
MATIO	DRILLING FLUI		AIR ROTARY HAM	MUD MER CABL	ADDIT	IVES – SPEC THER – SPEC		Hollow Stem	Auger CHECK INSTAL	HERE IF PI	TLESS ADAI	TER IS
DRILLING & CASING INFORMATION	DEPTH (fe	et bgl) TO	BORE HOLE DIAM (inches)	(include e	MATERIAL AN GRADE ach casing string ections of scree	g, and	CON	ASING NECTION TYPE	CASING INSIDE DIAM. (inches)	CASIN	G WALL KNESS ches)	SLOT SIZE (inches
IG & CA	0	55	±6.25		Soil Boring		(add coup	oling diameter)	7-54			-
DRILLI												
2.			-		4			•				
	DEPTH (fe	et bgl)	BORE HOLE		T ANNULAR				AMOUNT		метно	
TERIAL	FROM	TO	DIAM. (inches)	GRAV	VEL PACK SIZ	E-RANGE N/A	BY INTI	ERVAL	(cubic feet)		PLACEN	IENT
ANNULAR MATERIAL												
3. ANNU												
	OSE INTERNA	AT HEE						WR -2	0 WELL RECORD	& LOG (V	ersion 01/2	8/2022)
FILE	NO. CP	- 10	143 31E, 20	13	POD N	10.		TRN WELL TAG I	NO. 740	394		1 OF 2

	DEPTH (feet bgl)	1	СО	LOR AND TYI	E OF MATERI	AL ENCOL	INTERED -	V	VATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)		E WATER-BEA			ACTURE ZONE e all units)	S BE	ARING? ES / NO)	WATER- BEARING ZONES (gpm)
	0	4	4	Sa	and, fine-grained	poorly graded,	unconsolida	ted Brown	Y	✓ N	
	4	25	21		Caliche, with v	ery fine- grained	sand, Tan o	off white	Y	✓N	
	25	50	25	S	and, fine-grained	, poorly graded	consolidate	d, Brown	Y	✓ N	
	50	55	5	S	and,fine-grained	l, poorly graded	, unconsolid	ated, Tan	Y	✓N	
									Y	N	
									Y	N	
WE			*						1	N	
5									1	N	
3									Y	N	
2									Y	N	
									Y	N	
25									Y	N	
) KO		-							Y	N	
4. HYDROGEOLOGIC LOG OF WELL)	N	
4									Y	N	
)	N	
									1	N	
				1					Y	Ň	
									Y	N	
									1	N	
									Y		
	METHOD U		STIMATE YIELD	OF WATER-	BEARING STR OTHER				TOTAL ES WELL YIE	TIMATED ELD (gpm):	0.00
,	WELL TES		RESULTS - ATTA								
LEST; KIG SUPERVISION	MISCELLA		FORMATION: Te be 5	mporary wel	l material rem surface(bgs), th	oved and soil	boring back		rill cuttings to s to surface.	from total c	lepth to ten feet
3. IES	PRINT NAM Shane Eldri		RILL RIG SUPER	VISOR(S) TH	IAT PROVIDE	ONSITE SUP	ERVISION	OF WELL CON	ISTRUCTION	OTHER T	HAN LICENSEI
6. SIGNALUKE	THE UNDE	RSIGNED RECORD O	HEREBY CERTIF OF THE ABOVE D OLDER WITHIN 3	ESCRIBED F	HOLE AND TH	AT HE OR SHE ON OF WELL	WILL FIL	E THIS WELL	RECORD WI	PREGOING TH THE ST 4/26/23	IS A TRUE AN ATE ENGINEE
0		SIGNA	TURE OF DRILLE	R / PRINT	SIGNEE NAMI					DATE	
FOI	R OSE INTER	NAI USE						WR-20 WE	LL RECORD	& LOG (V	ersion 01/28/2022
	ENO. ()		13		POL	NO.		TRN NO.	7403	-	01/20/2021
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	70	3/E. 20	13	-	man of the state o		4.	1		PAGE 2 OF

OSE POD Location Map

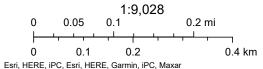


10/9/2024, 5:19:04 PM

GIS WATERS PODs OSE District Boundary Connector

Plugged NHD Flowlines

Artificial Path





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

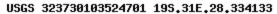
Save file of selected sites to local disk for future upload

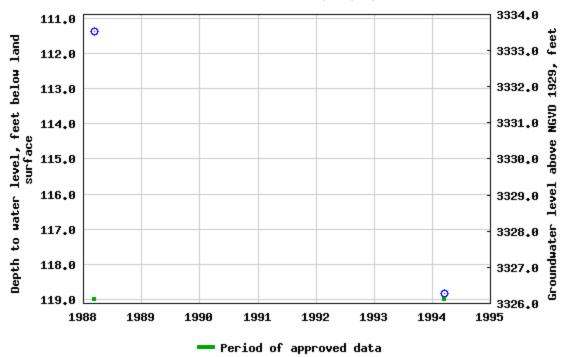
USGS 323730103524701 19S.31E.28.334133

Available data for this site	Groundwater:	Field measurements	~][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	<u>)</u> .	
This well is completed in th	ne Other aq	uifers (N9999OTh	HER)	national aquifer.
This well is completed in the	ne Dockum	Group (231DCKM	1) loc	al aquifer.

Output formats

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





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

Privacy

Policies and Notices

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

Title: Groundwater for USA: Water Levels

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

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

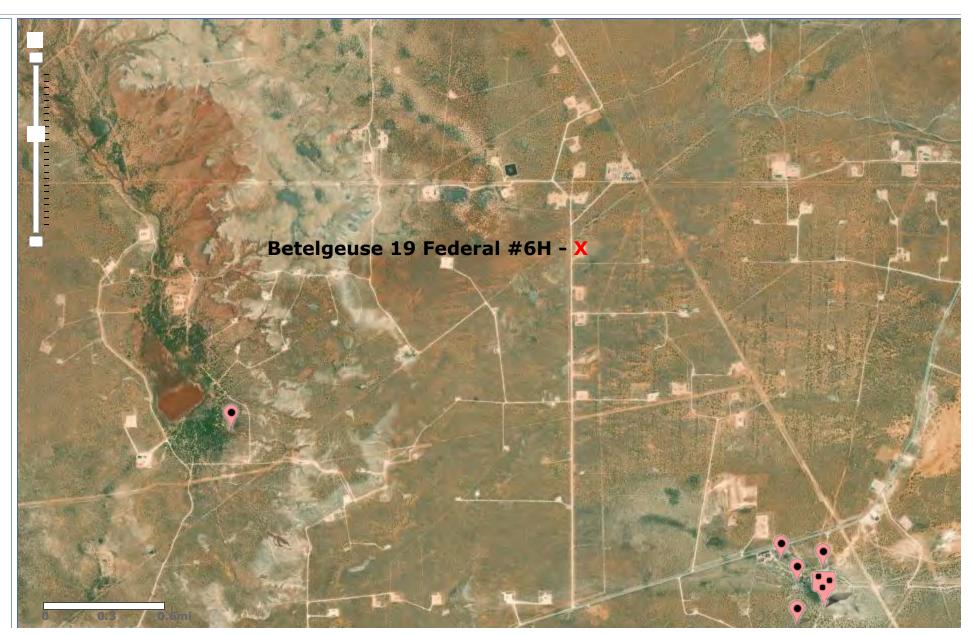
Page Last Modified: 2024-10-09 18:26:22 EDT

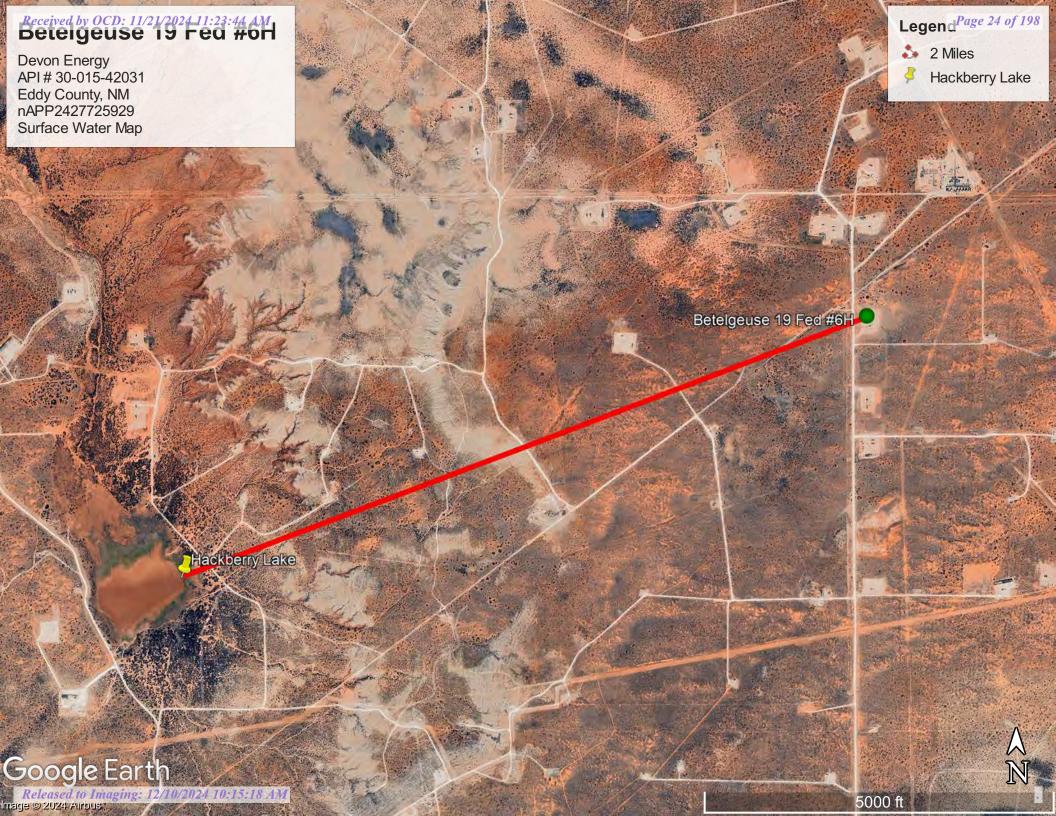
0.63 0.47 nadww01





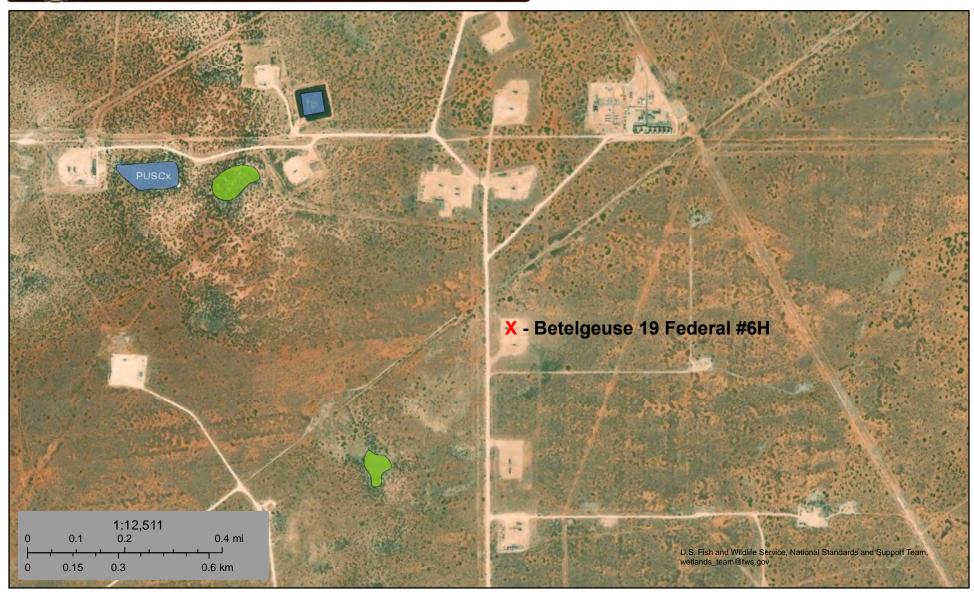
National Water Information System: Mapper







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 Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS Regulatory Floodway

With BFE or Depth Zone AE, AO, AH, VE, AR

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

OTHER AREAS OF FLOOD HAZARD

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

OTHER AREAS Area of Undetermined Flood Hazard Zone D

GENERAL

- - - Channel, Culvert, or Storm Sewer

STRUCTURES | LILLIL Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect**

Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary**

OTHER **FEATURES** — --- Coastal Transect Baseline **Profile Baseline**

Hydrographic Feature

Digital Data Available

No Digital Data Available

MAP PANELS

Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/9/2024 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.





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

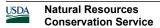
Land capability classification (irrigated): None specified

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

0

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

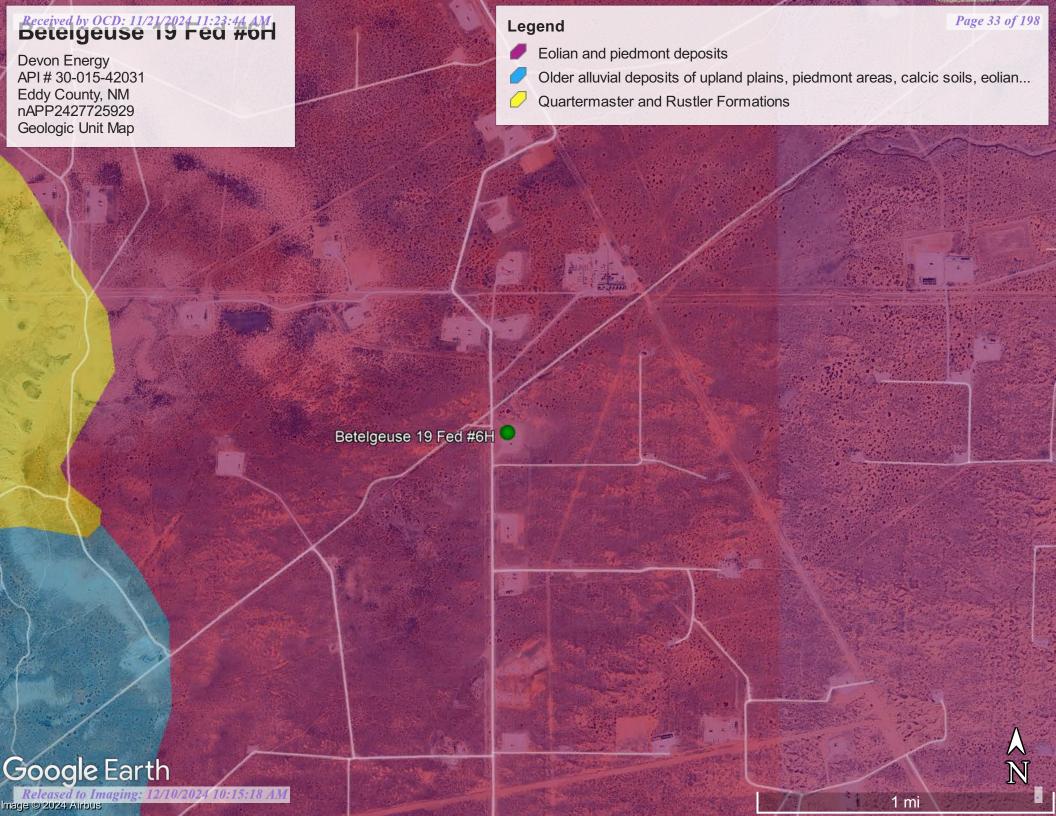
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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

<u>District I</u> 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

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	391388
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	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

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. Oklahoma City, OK 73102	Action Number: 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

<u>District I</u> 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

Created	Condition	Condition Date
Ву		
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.	10/31/2024



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



Released to Imaging: 12/10/2024 10:15:18 AM







Assessment 8





Released to Imaging: 12/10/2024 10:15:18 AM



Assessment 11



Assessment 13



Flagging/Marking 1



Flagging/Marking 2



Flagging/Marking 3





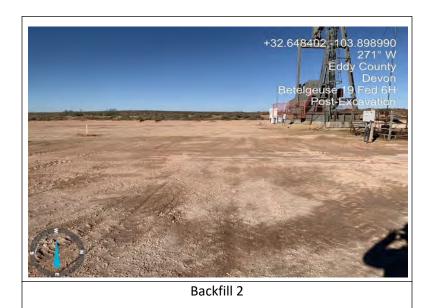
Excavation 2



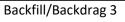
Excavation 4













Released to Imaging: 12/10/2024 10:15:18 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	Reported:
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

	E410139-01				
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	
	92.6 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Analyst: CG			Batch: 2442100
ND	20.0	1	10/16/24	10/20/24	
	93.4 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: AF		Batch: 2442109
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	83.7 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2442115
4630	40.0	2	10/16/24	10/18/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg Mg/kg mg/kg ND 20.0 93.4 % mg/kg ND 25.0 ND 50.0 83.7 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy 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 92.6% 70-130 70-130 mg/kg mg/kg Analy ND 20.0 1 Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 83.7% 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared 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 ND 25.0 1 10/16/24 ND 50.0 1 10/16/24 ND 50.0 1 10/16/24 ND 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 10/20/24 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

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

S1-1'

E410159-02						
		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	
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	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		93.3 %	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		89.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442115
Chloride	4470	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

S1-2'

E410159-03						
		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		93.7 %	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)	37.2	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		93.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442115
Chloride	1310	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

S1-3'

		Reporting				
Analyte	Result	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		94.0 %	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		94.0 %	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)	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	Anal	yst: DT		Batch: 2442115
Chloride	319	20.0	1	10/16/24	10/18/24	



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

S1-4'

		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		94.1 %	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		93.4 %	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		92.0 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2442115
Chloride	5800	100	5	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

S2-Surface E410159-06

		L-110137 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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	
-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	rst: 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	rst: DT		Batch: 2442115
Chloride	4990	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

S2-1'

E41		

		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		93.0 %	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		92.8 %	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		98.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442115
Chloride	533	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

S2-2'

E4101	59-	0	8
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		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	-	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'

E410159-09								
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		93.6 %	70-130	10/16/24	10/20/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2442100		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	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		95.2 %	50-200	10/16/24	10/18/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442115		
Chloride	668	20.0	1	10/16/24	10/18/24			



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

S2-4'

		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	



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

S3-Surface E410159-11

	L410137 11				
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	
	93.8 %	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	
	92.1 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: AF		Batch: 2442109
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	92.7 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2442115
5710	40.0	2	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 ND 0.0250 MD 0.0250 MD 20.0250 93.8 % mg/kg MD 20.0 92.1 % mg/kg ND 25.0 ND 50.0 92.7 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.8 % 70-130 mg/kg mg/kg Anal ND 20.0 1 92.1 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 92.7 % 50-200 mg/kg mg/kg Anal	Reporting Result Limit Dilution Prepared 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 ND 25.0 1 10/16/24 ND 50.0 1 10/16/24 ND 50.0 1 10/16/24 ND 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



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'

		Reporting				
Analyte	Result	Limit	Dilutio	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		92.0 %	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		92.9 %	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		92.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	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					
Reporting							
Analyte	Result	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		
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		87.1 %	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		
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	Ana	alyst: 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	Ana	alyst: 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'

		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		89.5 %	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		91.6 %	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	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		77.9 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2442115
Chloride	535	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

S3-4'

		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		89.5 %	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		91.9 %	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	10/17/24	
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	An	alyst: 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

		Reporting				
Analyte	Result	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		91.0 %	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		92.9 %	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)	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	Anal	yst: 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'

		Reporting				
Analyte	Result	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		92.1 %	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		92.3 %	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)	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	Anal	yst: DT		Batch: 2442115
Chloride	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'

		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		92.0 %	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		93.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	Analy	st: DT		Batch: 2442115
	267	20.0		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

	L-110137 17				
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	
	91.4 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Analyst: CG			Batch: 2442100
ND	20.0	1	10/16/24	10/20/24	
	92.8 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	yst: AF		Batch: 2442109
ND	25.0	1	10/16/24	10/17/24	
ND	50.0	1	10/16/24	10/17/24	
	89.5 %	50-200	10/16/24	10/17/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2442115
611	20.0	1	10/16/24	10/18/24	
	mg/kg ND Mg/kg ND mg/kg	Result 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 91.4 % mg/kg MD 20.0 92.8 % mg/kg ND 25.0 ND 50.0 89.5 % mg/kg mg/kg mg/kg	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 mg/kg mg/kg Anal ND 20.0 1 g2.8 % 70-130 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 89.5 % 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 ND 25.0 1 10/16/24 ND 25.0 1 10/16/24 ND 50.0 1 10/16/24 ND 50.0 1 10/16/24 Mg/kg Mg/kg Analyst: AF	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 ND 25.0 1 10/16/24 10/17/24 10/17/24 ND 50.0 1 10/16/24 10/17/24 ND 50.0 1 10/16/24 10/17/24 89.



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	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		92.5 %	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		94.2 %	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		78.8 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2442115
Chloride	679	20.0	1	10/16/24	10/18/24	



		QC SI	umm	iai y Dai	a				
Pima Environmental Services-Carlsbar PO Box 247	d	Project Name: Project Number:		Betelgeuse 19 1 01058-0007	Federal #6H				Reported: 10/22/2024 12:21:31PM
Plains TX, 79355-0247		Project Manager:		Tom Bynum					10/22/2024 12:21:31PM
		Volatile O	rganics	s by EPA 80	21B				Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442100-BLK1)							Prepared: 1	0/16/24 A	analyzed: 10/20/24
Benzene	ND	0.0250					1		
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: 1	0/16/24 A	analyzed: 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: 1	0/16/24 A	analyzed: 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			
Foluene	5.00	0.0250	5.00	ND	100	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131			
o,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: 1	0/16/24 A	analyzed: 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	
37.1	0.00	0.0500	10.0	ND	00.8	62 121	0.0051	20	

10.0

15.0

8.00

0.0500

0.0250

ND

ND

99.8

99.5

63-131

63-131

70-130

0.0851

0.0878

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.99

14.9

7.34

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				10/2	2/2024 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: 10)/16/24 Anal	yzed: 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: 10	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	7.56		8.00		94.5	70-130			
Matrix Spike (2442100-MS2)				Source:	E410159-	04	Prepared: 10	0/16/24 Anal	yzed: 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: 10	0/16/24 Anal	yzed: 10/20/24
Gasoline Range Organics (C6-C10)	40.6	20.0	50.0	ND	81.2	70-130	0.852	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

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

1 lams 1A, 77555-0247		1 Toject Ivianage	1. 10	in Bynain					22/2021 12:21:311
	Nonha	logenated Or	ganics by	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 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.8		50.0		81.7	50-200			
LCS (2442109-BS1)							Prepared: 1	0/16/24 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	244	25.0	250		97.6	38-132			
Surrogate: n-Nonane	43.7		50.0		87.3	50-200			
Matrix Spike (2442109-MS1)				Source:	E410159-	19	Prepared: 1	0/16/24 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike Dup (2442109-MSD1)				Source:	E410159-	19	Prepared: 1	0/16/24 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132	6.31	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

Matrix Spike (2442115-MS1)

Matrix Spike Dup (2442115-MSD1)

Chloride

Chloride

927

963

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

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

20

QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Betelgeuse 19 F 01058-0007	ederal #6F	ł			Reported:
Plains TX, 79355-0247	Project Manager:		Tom Bynum					10/22/2024 12:21:31PM	
		Anions	by EPA	300.0/9056A	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N.
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442115-BLK1)							Prepared: 1	0/16/24 A	nalyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442115-BS1)							Prepared: 1	0/16/24 A	nalyzed: 10/18/24
Chloride	259	20.0	250		104	90-110			

250

250

20.0

20.0

Source: E410159-09

Source: E410159-09

104

118

80-120

80-120

3.80

668

668

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.



Client: Pima Environmental Services Project: Betelgeuse 19 Federal #6H Atter				Bill To				Li	ab Us	se On	y				TA	T		EPA Pr	ogram		
Project: Betelg	euse 1	9 Fed	deral #			Attention: Devon Energy			WO#	!		Job 1	lum		1D	2D	3D	Sta	ndard	CWA	SDWA
Project Manager:						Address:		E٩	101	<u>59</u>				-0007	<u> </u>		$oxed{oxed}$		X		
<u> Address: 5614 N</u>						City, State, Zip						Analy	sis ar	d Metho	<u>d</u>						RCRA
City, State, Zip		NM. 8	<u> 38240</u>			Phone:									1			L			
Phone: 806-782					12.	Email:		015	015									L		State	
Email: tom@pi	maoil.c	om				Pima Project # 1-379 (nAPP2427	725929)	by 8	8 6	121	l g	.	0.0		Σ	١		L	NM CO	UT AZ	TX
Report due by:						Fillia Floject# 1 010 (IVII 1 2421	-	80	<u> </u>	08 ∕	82	6	le 3(1			L	X		
Time Date Sampled Sampled	Matrix		No. of ontainers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	ВСБОС				Remarks	
5:00	l S		1	S1-Surface)										х						
5:16				S1-1'			2														
5:23				S1-2'			3												-		
5:29				S1-3'			4	-													
5:31				S1-4'			5														
5:38				S2-Surface	•		6														
5:46				S2-1'			7														
5:51				S2-2'			8														
5:59				S2-3'			9														
6:00				S2-4'			10													•	
Additional Instru	ctions:		Work	Order/Billing	g: 21	1 21826												_			
, (field sampler), attest date or time of collectio						vare that tampering with or intentionally mislabelli ion. <u>Sampled by:</u>	ng the sample	locatio	on,										n ice the day ti ubsequent day	ney are sample 's.	d or received
Relinquished by: (Sign	4 dar	n	70	115/24 TIME	-:10	Received by: (Signature) Nichelle Gonzales	Date 15.2	ч	Time 14	Ю		Rece	ived	on ice:		ab Us)/ N	e Onl	l y			· · · · · · · · · · · · · · · · · · ·
Relinquished by: (Sign	Gans	ali	Date LO	15.24 Time	615		Date 10.15.	८५	Time /6	15	5	<u>T1</u>			T2				T3		
Rel/rabished by: (Bigr	nature) 0		Date	Time	.3c	Received by: (Signature)	Date 10-16	•	Time	300		AVG	Tem	p °c_ ∠							
Sample Matrix: S - Soil,	d - Solid, S	ig - Slud					Container									ss, v -	VOA		<u> </u>		
		_	-		unles	s other arrangements are made. Hazardous s												eport	for the ana	ysis of the	above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 31 of 33

Client: Pima Environmental Services

Project: Betelgeuse 19 Federal #6H Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs. NM. 88240

tom@pimaoil.com

Matrix

S

Containers

Phone: 806-782-1151

Date

Sampled

Report due by: Time

Sampled

6:23

6:38

6:52

6:59

Additional Instructions:

servi	ces	Bill						e On						AT	EPA P	rogram
eral	#6H	Attention: Devon Er	nergy	Lab '					Num		1D	2D	3D	Standard	CWA	SDWA
n		Address:		EH	10.1	59	· .	010	58-	0007				X		
Hwy.		City, State, Zip						Analy	sis ar	nd Metho	d					RCRA
8240	<u>) </u>	Phone:														
		Email:		55	15										State	
		Pima Project # 1-37	9 (nAPP2427725929)	O by 80	O by 80	8021	8260	010	300.0		Σ	 <u> </u>		NM CO	UT AZ	TX
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		ВСБОС	верос			Remarks	
1	S3-Surface		11		,						x	٦				
Ī	S3-1'		اي								Ħ					
┪	 		10							-	╁╂	╁	_	 		
	S3-2'		13								Ш					
	S3-3'		14													
	S3-4'		15													
	S4-Surface		16													
	S4-1'		17													
	S4-2'		18													
	S4-3'		19													
	S4-4'		ao													
Work	Order/Billing:	21421826										•	•			
	icity of this sample. I armay be grounds for lega	n aware that tampering with or inter			on,				-	_				ceived on ice the day t 6 °C on subsequent da	-	ed or receive
Dațe	1527 Time	onsales 1015.2	u	Time			Lab Use Only Received on ice: N						· · · · · · · · · · · · · · · · · · ·			

I, (field sampler), attest to the validity and authenticity of date or time of collection is considered fraud and may be Relinquished by: (Signature) 0800 AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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



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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

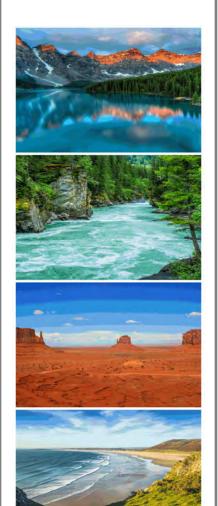
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	10/16/24 08:	:00	Work Order ID:	E410159
Phone:	(575) 631-6977	Date Logged In:	10/15/24 16:	:33	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	10/22/24 17	:00 (4 day TAT)		
	Custody (COC)		77			
	he sample ID match the COC? he number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ich die COC	Yes	a : a	•	
	the COC complete, i.e., signatures, dates/times, request	sted analyses?	Yes Yes	Carrier: <u>C</u>	<u>ourrier</u>	
	all samples received within holding time?	sted analyses.	Yes			
	Note: Analysis, such as pH which should be conducted it i.e, 15 minute hold time, are not included in this disucssion.			r	Comment	s/Resolution
	Furn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by is missing of	on COC by client.
Sample (<u>Cooler</u>				Project Betelgeuse 19 F	ederal 6H has been
7. Was a	sample cooler received?		Yes		separated into multiple	WOs due to high
8. If yes,	was cooler received in good condition?		Yes		sample volume, WOs ar	_
9. Was th	e sample(s) received intact, i.e., not broken?		Yes		•	
10. Were	custody/security seals present?		No		E410159-E410161.	
	, were custody/security seals intact?		NA			
	ne 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 (Container					
	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers	?	Yes			
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field Lal	<u>bel</u>					
20. Were	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	Oate/Time Collected? Collectors name?		Yes	-		
	Preservation		No			
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?	reserved:	NA			
	filteration required and/or requested for dissolved n	netals?	No			
		ilouis.	110			
	ase Sample Matrix the sample have more than one phase, i.e., multipha		N			
	s, does the COC specify which phase(s) is to be analy		No			
•		yzeu:	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laborato	•	No			
29. Was a	a subcontract laboratory specified by the client and in	f so who?	NA S	Subcontract Lab	: NA	
Client I	<u>nstruction</u>					
						(A)

Date

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: 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

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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	10/23/24 11:06

Client Sample ID	Lab Sample ID M	Aatrix	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

		E.110100 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	•		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		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		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		106 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2442114
Chloride	5130	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	10/23/2024 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	



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'

		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	l	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 - 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		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		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		110 %	50-200		10/16/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	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

S5-3'

E41	01	60.	-04
1741	VΙ	vv.	-04

		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	10/20/24	
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		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		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		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

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		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	10/19/24	
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
Chloride	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

		2.10100 00				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		nalyst: IY		Batch: 2442101
Benzene	ND	0.0250	1	10/16/24	10/20/24	Butch. 2112101
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	Aı	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	Aı	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	Aı	nalyst: DT		Batch: 2442114
Chloride	8750	200	10	10/16/24	10/19/24	

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

S6-1'

		E410160-07					
		Reporting					
Analyte	Result	Limit	Dilu	ition	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	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	l	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	l	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	l	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	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	182	50.0	1	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	5	10/16/24	10/19/24	



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

S6-2'

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	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	l	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	l	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	l	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	1	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	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
					10/16/24	10/19/24	



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
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S6-3' E410160-09

Result	Limit	Dil	lution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
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	
	91.7 %	70-130		10/16/24	10/20/24	
	97.5 %	70-130		10/16/24	10/20/24	
	102 %	70-130		10/16/24	10/20/24	
mg/kg	mg/kg		Analyst:	IY		Batch: 2442101
ND	20.0		1	10/16/24	10/20/24	
	91.7 %	70-130		10/16/24	10/20/24	
	97.5 %	70-130		10/16/24	10/20/24	
	102 %	70-130		10/16/24	10/20/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2442108
ND	25.0		1	10/16/24	10/22/24	
ND	50.0		1	10/16/24	10/22/24	
	109 %	50-200		10/16/24	10/22/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2442114
1680	20.0		1	10/16/24	10/19/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 91.7 % 97.5 % 102 % mg/kg ND 20.0 91.7 % 97.5 % 102 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 109 % mg/kg mg/kg mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 91.7 % 70-130 97.5 % 70-130 102 % 70-130 mg/kg mg/kg ND 20.0 91.7 % 70-130 97.5 % 70-130 102 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 109 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 97.7 % 70-130 97.5 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 97.5 % 70-130 1 97.5 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 109 % 50-200 mg/kg Mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY 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 91.7 % 70-130 10/16/24 97.5 % 70-130 10/16/24 102 % 70-130 10/16/24 97.5 % 70-130 10/16/24 97.5 % 70-130 10/16/24 97.5 % 70-130 10/16/24 102 % 70-130 10/16/24 102 % 70-130 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 mg/kg <td>Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY Interpretable of the property of the propert</td>	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY Interpretable of the property of the propert



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

S6-4'

		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	l	10/16/24	10/20/24	
o-Xylene	ND	0.0250	1	l	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		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:	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		94.9 %	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:	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:	DT		Batch: 2442114



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S7-Surface E410160-11

		2.10100 11				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	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		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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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

		2110100 12					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
	mg/kg			Analyst	•	7 mary 2ca	Batch: 2442101
Volatile Organic Compounds by EPA 8260B		mg/kg		Allaryst	10/16/24	10/20/24	Batch: 2442101
Benzene	ND	0.0250		1	10/16/24	10/20/24	
Ethylbenzene	ND	0.0250		1			
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		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		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		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	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		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	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:	DT		Batch: 2442114
Chloride	1110	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

S7-3'

E410160-14

		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analys	st: 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	mg/kg		Analys	st: 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		Analys	st: 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		Analys	st: DT		Batch: 2442114
Chloride	5650	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

S7-4'

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		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	10/20/24	
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		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	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	10/16/24	10/22/24	
Oil Range Organics (C28-C36)	ND	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		Analyst:	: DT		Batch: 2442114
Chloride	5700	100		5	10/16/24	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**

		Reporting				
Analyte	Result	Limit	Diluti	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		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	A	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	A	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	A	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

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		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	10/20/24	
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		Analyst:	: 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		Analyst:	: 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		Analyst:	: DT		Batch: 2442114
	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

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		Reporting					
Analyte	Result	Limit	Dilut	tion	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		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	A	Analyst: IY	-		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	I	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	A	Analyst: Di	Γ		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

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		Reporting					
Analyte	Result	Limit	Dilut	tion	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		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	A	Analyst: IY			Batch: 2442101
Gasoline Range Organics (C6-C10)	ND	20.0	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	A	Analyst: NV	•		Batch: 2442108
Diesel Range Organics (C10-C28)	29.2	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		106 %	50-200		10/16/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2442114
	4360	40.0	2		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

S8-4'

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		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		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		5	10/16/24	10/19/24	

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	r: To	om Bynum				10/2	3/2024 11:06:23A
	V	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: 10	0/16/24 Analy	yzed: 10/19/24
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: 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: 10	0/16/24 Analy	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			
Foluene	2.45	0.0250	2.50		98.0	70-130			
o-Xylene	2.59	0.0250	2.50		104	70-130			
p,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: 10	0/16/24 Analy	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			
o-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			
Gurrogate: 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: 10	0/16/24 Analy	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		10.4	50 120			

0.500

104

70-130

0.522

Surrogate: Toluene-d8

Surrogate: Toluene-d8

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	:: То	m Bynum					10/23/2024 11:06:23A
	Noi	nhalogenated (Organics l	by EPA 80	15D - GF	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: 1	0/16/24	Analyzed: 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: 1	0/16/24	Analyzed: 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)5	Prepared: 1	0/16/24	Analyzed: 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)5	Prepared: 1	0/16/24	Analyzed: 10/19/24
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130	7.27	20	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			

0.500

0.531

106

70-130



QC Summary Data

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

Plains 1X, /9355-024/		Project Manage	r: 10	m Bynum				10	1/23/2024 11:00:23A
	Nonha	logenated Or	ganics by	EPA 8015I	D - 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 (2442108-BLK1)							Prepared: 1	0/16/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			
LCS (2442108-BS1)							Prepared: 1	0/16/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
Matrix Spike (2442108-MS1)				Source:	E410160-	11	Prepared: 1	0/16/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	473	25.0	250	156	127	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			
Matrix Spike Dup (2442108-MSD1)				Source:	E410160-	11	Prepared: 1	0/16/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	428	25.0	250	156	109	38-132	9.83	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			

Chloride

QC Summary Data

Pima Environmental Services-Carlsbac PO Box 247	I	Project Name: Project Number:		Betelgeuse 19 F 01058-0007	Federal #6I	ł			Repo	rted:
Plains TX, 79355-0247		Project Manager		Гот Вупит					10/23/2024 1	1:06:23AM
		Anions	by EPA	300.0/9056	4				Analyst:	DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	N	otes
Blank (2442114-BLK1)							Prepared:	10/16/24	Analyzed: 10)/18/24
Chloride	ND	20.0								
LCS (2442114-BS1)							Prepared:	10/16/24	Analyzed: 10	/18/24
Chloride	261	20.0	250		104	90-110				
Matrix Spike (2442114-MS1)				Source:	E410160-	10	Prepared:	10/16/24	Analyzed: 10	/18/24
Chloride	715	20.0	250	427	115	80-120				
Matrix Spike Dup (2442114-MSD1)				Source:	E410160-	10	Prepared:	10/16/24	Analyzed: 10	/18/24

250

20.0

106

80-120

3.39

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	10/23/24 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	form	ation	ı												Ch	ain o	f Custod	У													Page	3	_ of _	7_
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Project N	1anag	er:	Tom	Byn	um				Add	ress:									110			010	58-	000 F	}					X				1
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Email: t			aoil.	com	<u> </u>				Din	na Dr	oioc	+ #	1-3	379 (r	APP2	24277	25929)	ě Š	ă ă	2	8	ا و	l g			Σ	١.,		-	им со	UT	AZ	TX	4
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Time Sampled	Dat Samp	led	Matr	ix		o of Biners	Sample ID										Lab Numbei	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			ВСБОС	верос				Rem	arks		
7:03	101	12	S		1	1	S5-Surfac	ce									1									x								
7:12							S5-1'										2																	
7:18							S5-2'										3																	
7:24							S5-3'										4																	
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Client: P	ima En	ironn	aant	al S.	n do		1	Bill T	<u> </u>		т—		1.	sh He	e Onl			—т			T/	A T		EPA Pr	ogram
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Report du	ue by:							Pima Project # 1-379	(NAPP2421	725929)] g	g	, 8021	826	<u>6</u>	ĕ		ľ	ž	¥			Х		
Time Sampled	Date Sampled	Mat	rix	No. Contai		Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by	втех Ьу ≀	VOC by 8260	Metals 6010	Chloride 300.0			верос	родра				Remarks	
% :25	10/17	S		1		S7-Surface)			11									Х				_		
8 :37						S7-1'				12															
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9:20						S7-4'				15															
9:28						S8-Surface	•			16															
9:31						S8-1'				17															
9:38						S8-2'				18															
9:47						S8-3'				19															
9:51						S8-4'				20															
Addition	al Instru	ctions	:	W	ork '	Order/Billing	j: 21	421826																	
	**		-			ity of this sample. ay be grounds for le			ionally mislabellir	g the sample	locatio	on,					-						on ice the day i subsequent da	they are sample ys.	d or received
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Sample Matr	ix: S - Soil, S	d - Solid	, Sg - S			ueous, O - Other_			•	Container									glas	s, v -	VOA	<u></u>			
								s other arrangements are made		amples will	be ret	urned	to cli	ent or	dispos	ed of	at the					report	for the ana	lysis of the	above
samples is a	annticable	only to	those	samn	les re	ceived by the lab	orato	ry with this COC. The liability of	the laboratory	is limited to	the a	moun	t naid	I for o	n the re	enort									



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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

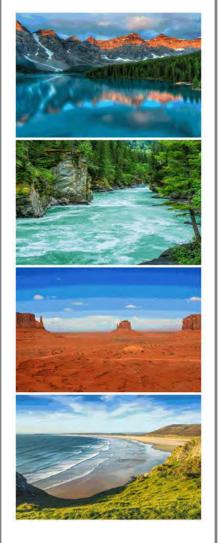
Instructions: Please take note of any NO checkmarks.

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.

				1	
Client:	Pima Environmental Services-Carlsbad	Date Received:	10/16/24	08:00	Work Order ID: E410160
Phone:	(575) 631-6977	Date Logged In:	10/15/24	16:34	Logged In By: Noe Soto
Email:	tom@pimaoil.com	Due Date:	10/22/24	17:00 (4 day TAT)	
Chain of	Custody (COC)				
	e sample ID match the COC?		Yes		
	e number of samples per sampling site location mate	the COC	Yes		
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>
4. Was the	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes		
5. Were al	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 disucssion		Yes		Comments/Resolution
Sample T	urn Around Time (TAT)				
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by is missing on COC by client.
Sample C	<u>cooler</u>				Project Betelgeuse 19 Federal 6H has been
7. Was a s	ample cooler received?		Yes		separated into multiple WOs due to high
8. If yes, v	was cooler received in good condition?		Yes		sample volume, WOs are
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		l -
10. Were	custody/security seals present?		No		E410159-E410161.
	were custody/security seals intact?		NA		
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes		
Sample C			<u>~</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?		Yes		
	appropriate volume/weight or number of sample contained	ers collected?	Yes		
Field Lab	· · ·				
	field sample labels filled out with the minimum infor	mation:			
	ample ID?		Yes		
	ate/Time Collected?		Yes		
	ollectors name?		No		
	reservation	10			
	the COC or field labels indicate the samples were pre	eserved?	No		
	ample(s) correctly preserved?	. 1.0	NA		
	filteration required and/or requested for dissolved me	etais?	No		
	se Sample Matrix	_			
	the sample have more than one phase, i.e., multiphase		No		
27. If yes,	does the COC specify which phase(s) is to be analyzed	zed?	NA		
Subcontr	act Laboratory				
	imples required to get sent to a subcontract laboratory subcontract laboratory specified by the client and if		No NA	Subcontract Lab	o: NA
Client In	struction_				

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

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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	Reported:
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/24 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.
Н3-3'	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.



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

H1-Surface E410161-01

	E410101-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	vst: 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	Analy	st: BA		Batch: 2442103
ND	20.0	1	10/16/24	10/19/24	
	88.8 %	70-130	10/16/24	10/19/24	
mg/kg	mg/kg	Analy	/st: AF		Batch: 2442107
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	83.1 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Analy	/st: DT		Batch: 2442113
ND	20.0	1	10/16/24	10/17/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting 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 88.8 % mg/kg ND 25.0 ND 50.0 83.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 Mg/kg mg/kg Analy ND 20.0 1 88.8 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 83.1 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared 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 mg/kg Analyst: BA 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 ND 50.0 1 10/16/24 Mg/kg mg/kg Analyst: AF	Reporting 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 10/19/24 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

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

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	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		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	



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

H1-2'

		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	10/19/24	
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		89.7 %	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		85.3 %	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	•



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

H1-3'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	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	
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		89.0 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: 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	Analys	st: DT		Batch: 2442113
Chloride	ND	20.0	1	10/16/24	10/17/24	



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

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	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		89.7 %	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	· · · · · · · · · · · · · · · · · · ·



Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
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H2-Surface E410161-06

		2110101 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	
oluene	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	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		83.2 %	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	



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



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

H2-2'

		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	10/19/24	
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	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		89.0 %	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		87.2 %	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	·



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

H2-3'

		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		102 %	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		89.5 %	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		73.9 %	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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Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/22/2024 9:03:51AM

H2-4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	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		102 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	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		89.0 %	70-130	10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	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		80.3 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2442113
					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

H3-Surface E410161-11

		E-10101-11				
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	
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	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		89.9 %	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		57.3 %	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	



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

H3-1'

		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		89.3 %	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		61.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2442113
Chloride	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

H3-2'

		E410161-13				
		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	
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	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		88.9 %	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		84.3 %	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	



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	10/22/2024 9:03:51AM

H3-3'

E410161-14						
Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	nlyst: 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	nlyst: 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	Ana	ılyst: 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	Ana	alyst: DT		Batch: 2442113
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

H3-4'

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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		101 %	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		89.1 %	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		83.1 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442113
	ND	20.0		10/16/24	10/17/24	<u> </u>



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

H4-Surface E410161-16

		L-110101 10				
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	10/20/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/20/24	
Toluene	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		102 %	70-130	10/16/24	10/20/24	
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	10/20/24	
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	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		87.3 %	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	



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

H4-1'

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		102 %	70-130	10/16/24	10/20/24	
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	10/20/24	
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	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		80.7 %	50-200	10/16/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442113
	ND	20.0		10/16/24	10/17/24	



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

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	·



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

H4-3'

		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		89.3 %	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
	ND	20.0		10/16/24	10/17/24	



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

H4-4'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: BA		Batch: 2442103
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	
	101 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	lyst: BA		Batch: 2442103
ND	20.0	1	10/16/24	10/20/24	
	90.0 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	lyst: AF		Batch: 2442107
ND	25.0	1	10/16/24	10/18/24	
ND	50.0	1	10/16/24	10/18/24	
	93.6 %	50-200	10/16/24	10/18/24	
mg/kg	mg/kg	Anal	lyst: DT		Batch: 2442113
	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 MD 0.0250 MD 0.0250 MD 0.0250 MB/kg mg/kg MD 20.0 90.0 % mg/kg ND 25.0 ND 50.0 93.6 %	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 70-130 mg/kg mg/kg Anal ND 20.0 1 90.0 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 93.6 % 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 mg/kg Analyst: BA 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	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: AF 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



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-Surface E410161-21

		E-10101-21				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	Analy	st: 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	Analy	st: 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	Analy	st: 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

H5-1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	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		89.5 %	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		101 %	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	



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	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	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	
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		101 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	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	An	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	An	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	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		100 %	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

H5-4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	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		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		89.0 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: 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		96.1 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	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

BG1-1' E410161-26

		L-110101 20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
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	
urrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/20/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/16/24	10/20/24	
Sonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442106
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Dil 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	Analy	st: 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				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: 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	Anal	lyst: BA		Batch: 2442116
ND	20.0	1	10/16/24	10/20/24	
	88.1 %	70-130	10/16/24	10/20/24	
mg/kg	mg/kg	Anal	lyst: NV		Batch: 2442106
ND	25.0	1	10/16/24	10/17/24	
ND	50.0	1	10/16/24	10/17/24	
	98.0 %	50-200	10/16/24	10/17/24	
mg/kg	mg/kg	Anal	lyst: 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 MD 0.0250 MD 20.0250 88.1 % mg/kg MD 25.0 ND 50.0 98.0 %	Result Limit Dilution mg/kg mg/kg Ana 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 70-130 mg/kg mg/kg Ana ND 20.0 1 88.1 % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 98.0 % 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 98.0 % 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 0.0250 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



p,m-Xylene

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Matrix Spike Dup (2442103-MSD1)

QC Summary Data

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 5.00 113 70-130 Benzene 0.0250 Ethylbenzene 5.43 0.0250 5.00 109 70-130 5.56 0.0250 5.00 111 70-130 Toluene 5.45 109 o-Xylene 0.0250 5.00 70-130 11.0 10.0 110 70-130 0.0500 p.m-Xvlene 110 70-130 16.5 0.0250 15.0 Total Xylenes 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 107 61-133 Ethylbenzene 5.34 0.0250 5.00 Toluene 5.45 0.0250 5.00 ND 109 61-130 5.36 5.00 ND 107 63-131 0.0250 o-Xylene

10.0

15.0

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

ND

ND

ND

109

113

110

112

110

111

111

102

Source: E410161-05

63-131

63-131

70-130

54-133

61-133

61-130

63-131

63-131

63-131

70-130

2.63

2.60

2 52

2.80

2.65

2.70

10.9

16.2

8.21

5.66

5.48

5 59

5.52

11.1

16.7

8.20

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

Prepared: 10/16/24 Analyzed: 10/19/24

20

20

20

20

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 Source RPD Reporting Spike Rec 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 ND Toluene 0.0250 ND 0.0250 o-Xylene 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 5.00 103 70-130 0.0250 Benzene Ethylbenzene 4.91 0.0250 5.00 98.1 70-130 70-130 5.06 0.0250 5.00 101 Toluene 4.96 99.3 70-130 o-Xylene 0.0250 5.00 9.94 0.0500 10.0 99.4 70-130 p,m-Xylene 14.9 99.4 70-130 0.0250 15.0 Total Xylenes 102 70-130 8.00 Surrogate: 4-Bromochlorobenzene-PID 8.20

Matrix Spike (2442116-MS1)				Source:	E410161-2	25	Prepared: 10/16/24 Analyzed: 10/20/24
Benzene	5.52	0.0250	5.00	ND	110	54-133	
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133	
Toluene	5.45	0.0250	5.00	ND	109	61-130	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	
Total Xylenes	16.1	0.0250	15.0	ND	108	63-131	
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130	

Matrix Spike Dup (2442116-MSD1)				Source:	E410161-	25	Prepared: 10	0/16/24 Analyzed: 10/21/24	1
Benzene	5.33	0.0250	5.00	ND	107	54-133	3.47	20	
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133	2.28	20	
Toluene	5.29	0.0250	5.00	ND	106	61-130	3.05	20	
o-Xylene	5.21	0.0250	5.00	ND	104	63-131	2.94	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	1.71	20	
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131	2.12	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

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 Bynum10/22/20249:03:51AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				10/2	22/2024 9:03:51AM
	Non	halogenated	Organics	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 (2442103-BLK1)							Prepared: 1	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: 1	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	

8.00

7.27

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		m Bynum				10/2	2/2024 9:03:51AN
	Non	halogenated	Organics l	by EPA 80	15D - GI	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 Analy	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 Analy	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: 10	0/16/24 Analy	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 Manage	r: To	m Bynum				10	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	alyzed: 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	alyzed: 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-	24	Prepared: 1	0/16/24 An	alyzed: 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-	24	Prepared: 1	0/16/24 An	alyzed: 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 Manage	r: To	m Bynum				10	/22/2024 9:03:51A
	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 Ana	llyzed: 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 Ana	lyzed: 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 Ana	lyzed: 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 Ana	lyzed: 10/18/24
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	3.41	20	
Surrogate: 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

		Anions	by EPA 3	00.0/9056 <i>A</i>	1				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 (2442095-BLK1)							Prepared: 1	0/16/24 Analy	zed: 10/16/24
Chloride	ND	20.0							
LCS (2442095-BS1)							Prepared: 1	0/16/24 Analy	zed: 10/16/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2442095-MS1)				Source:	E410154-	04	Prepared: 1	0/16/24 Analy	zed: 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 Analy	zed: 10/16/24

41.7

80-120

20.0



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Betelgeuse 19 F 01058-0007	ederal #6H	I			Reported:
Plains TX, 79355-0247		Project Manager:	٦	Tom Bynum					10/22/2024 9:03:51AM
		Anions	by EPA	300.0/9056	\				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 (2442113-BLK1)							Prepared:	10/16/24 A	nalyzed: 10/17/24
Chloride	ND	20.0							
LCS (2442113-BS1)							Prepared:	10/16/24 A	analyzed: 10/17/24
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2442113-MS1)				Source:	E410161-0)1	Prepared:	10/16/24 A	analyzed: 10/17/24
Chloride	259	20.0	250	ND	104	80-120			
Matrix Spike Dup (2442113-MSD1)				Source:	E410161-0)1	Prepared:	10/16/24 A	analyzed: 10/17/24
Chloride	259	20.0	250	ND	104	80-120	0.0193	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

ſ	Pima Environmental Services-Carlsbad	Project Name:	Betelgeuse 19 Federal #6H	
l	PO Box 247	Project Number:	01058-0007	Reported:
l	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.



Client: P	ima	Env	iron	men	tal Se	ervic	es			1		Bill T	o				Lä	ab Us	e Onl	у					TA	AT.		EPA P	rogram
Project:									Attentio		von Ene	ergy			WO#			Job N				1D	2D	3D	Sta	andard	CWA	SDWA	
Project M										Address					E۲	1101	61		0105								Χ		
Address:										City, Sta									Analys	is ar	nd Me	thod							RCRA
City, State					<u> 1. 88</u>	<u> 240</u>	<u>-</u>		2.5	Phone:																			
Phone: 8										Email:					8015	8015												State	
Email: t			<u>nao</u>	il.cor	<u>n</u>					Dimo	Project	# 1-379	(nAPP24277	259291	P 8	×	12	l g	。	8	1		Σ					UT AZ	TX
Report de	ue b	<u>v:</u>								Pillia	- Toject	# 1-013	(11/41) 2-121)	20020)	Š	<u>2</u>	, 88 8	826	60	, e				¥	.]		X		<u> </u>
Time Sampled		ate npled	м	atrix	No. Conta		Sample ID	1						Lab Number	рко/око	GRO/DRO by	ВТЕХ ЬУ 802:	VOC by 8260	Metals 6010	Chloride 300.0			верос	эсос				Remarks	
16:17	2	12		S	1	_	H1-Surf	face	l			<u>.</u>											Х						
10:23							H1-1'							a															
10:29							H1-2'							3															
10:35		1					H1-3'							4															
10:41		\perp					H1-4'							5															
10:47				<u>_</u>			H2-Sur	face)					6															
10:54							H2-1'							7															
11:17							H2-2'					_		8			ļ						1						
11:23							H2-3'						:	9															
11:36							H2-4'							10															
Addition	al Ir	stru	tior	ıs:	٧	/ork	Order/Bi	illing	j: 21	421826																			
							ity of this sar ay be ground			tion.	<u>S</u> a	ampled by:	ionally mislabellin	g the sample	locatio	on,							above () but le	ss than 6	5 °C on :	on ice the day t subsequent da		ed or received
Relinquishe	MÍ	4 s	<u>da</u>	me		Date	15/24	Time	10	Received by: (Signature) Date Time Lab Use Only Received on ice: (Y) N																			
Relinquishe	ell	e, G	900	zď		Date O	5.24		el S	٠ ١	late.	(Signature)	2	Date 10-15-24 1615 T1 T2 T3															
Relinquishe	ed by	(Sign		, o		Date	15.24	Time	3 c	Rec	eived by:	(Signature)	•	Date 16-		Time	3 00		AVG	Tem	ıp °C	4		· .					
Sample Mat	rix: \$	- Soil, S	d - So	lid, Sg -	Sludge,	, A - Ac	ueous, O - O	ther_						Containe															
Note: Sam	ples	are dis	carde	ed 30 d	ays aft	er res	ults are rep	orted					re made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above																
samples is	appl	icable	only t	to thos	e samı	oles re	ceived by the	he lab	orato	ry with thi	is COC. Th	e liability of	f the laboratory	is limited to	o the a	amour	nt paid	l for o	n the re	eport									



ject Information	Chain of Custody
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Client: P	ma E	nvir	onmen	tal S	ervic	es			Bill To	•			لما	ab Us	e On	y					<u>T/</u>			EPA P	rogram
Project:	Bete	lgeu	se 19	Fede	eral#	6H	n Energy		Lab	WO#	ŧ	* 4, - 2	Job 1				.D	2D	3D	St	andard	CWA	SDWA		
Project N	lanage	er: T	om By	<u>num</u>	1		100	Address:			E	10	161		90	<u>58-</u>	- 000	} [Χ		
Address:	5614	N. I	oving	ton F	lwy.		ŀ	City, State, Zip							Analy	sis ar	nd Met	hod							RCRA
City, State	e, Zip	Hol	bs. Ni	M. 88	8240			Phone:																	
Phone: 8							2.7	Email:			51	1 2						ı						State	
Email: t				m					4 070 / 4 000 407	705000\	8 8	8			_	2			٦,				NM CO	UT AZ	TX
Report de	ue bv:							Pima Project #	1-379 (nAPP2427	725929)	Q Q	0	8	826	8	ĕ			Σ	ř			х		
Time Sampled	Date Sample		Matrix		o. of tainers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			верос	верос				Remarks	i
11:44	10/1	2	S		1	H3-Surface	•			<u> </u>]	x						
11:56						H3-1'				ાત્ર															
12:04						H3-2'				13	<u> </u>														
12:16						H3-3'				14		_													
12:21		\perp				H3-4'				15								_	Ц						
12:34						H4-Surface	e			16									\prod					<u></u>	
12:44		\downarrow				H4-1'				17			<u> </u>						Ц						
12:56						H4-2'				18		_		_											
1:03						H4-3'				M	_								Ц						
1:16	į					H4-4'		····		20															
Addition						Order/Billing																			
		er), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, of collection is considered fraud and may be grounds for legal action. Sampled by: Sampled by: Sampled by: Sampled by: Sampled by:										led or received													
Relinquishe	Ml	A	lame	,	70	15/24 12	110	Received by: (Signature)	e Gamaniec	Date Lab Use Only Received on ice: N															
Relifiquishe				des	Date	15.24 Time	હે 15	Rederved by: Sig	gnature)	16.15	.24	<u> </u>	61	<u>S</u>	<u>T1</u>			_ 1	<u> </u>	- - 			<u>T3</u>		
Religiouish	ed by: (S	ignat VQ	ure)		Date	15.24 Z	23	Received by: (Sig	gnature)	Date 10-16	ન્રૂપ	Time		0	AVG	Ten	np °C_	4			2 1 12 <u></u>				
Sample Mat	rix: S - Sc	il, Sd	Solid, Sg	- Sludg		queous, O - Other_				Containe	г Тур	e: g -	glass,	p - p	oly/pl	astic,	ag - a	mber	glas	s, v -	VOA				
Note: Sam	ples are	disca	rded 30	days a	fter res	ults are reported	d unles	s other arrangements a	re made. Hazardous s	amples will	be re	turne	d to cl	ient o	r dispo	sed o	f at the	client	ехре	ense.	The	report	t for the ana	ysis of the	above
samples is	applical	ble on	ly to tho	se san	nples re	eceived by the lal	borato	ry with this COC. The lia	ability of the laboratory	is limited t	o the	amou	nt paid	d for o	n the r	eport	:								

Page	7	of	7
rage		0' _	

Client: P	ima	Envi	ronmen	tal S	ervio	ces	1	Bill To				Li	ab Us	e Only	y .					TAT	•	EPA Pr	ogram
Project:	Bet	elge	use 19	Fede	eral #			Attention: Devon Energy	1_	Lab	WO#		1,000	Jòb N	umb	er	10) 2[7 3	3D	Standard	CWA	SDWA
Project N								Address:		E۲	W0#	161		0105	<u> 8-</u>	000	<u> </u>				_X		
Address:	561	<u>4 N.</u>	Loving	ton F	lwy.		1,25	City, State, Zip	<u>.</u>					Analys	is an	d Meth	od				V. 177		RCRA
City, Stat	e, Zip	Ho	bbs, N	M. 88	3240	<u> </u>		Phone:	<u> </u>										T				
Phone: {							3.5	Email:	L	8015	8015	[1			ŀ				State	
Email:			<u>naoil.co</u>	m				Pima Project # 1-379 (nAPP24277	7250201	8 >	8	=	ဝူ		8		}	. l			NM CO	UT AZ	TX
Report d	ue by	<u>':</u>						Pima Project # 1-379 (IAPP2427)	20020)	ğ	ğ	8	826	109	8				<u> </u>		X		
Time Sampled	Da Samı		Matrix		o. of ainers	Sample ID			Lab Number	DRO/ORO by	GRO/DRO by	ВТЕХ ЬУ 8021	VOC by 8260	Metals 6010	Chloride 300.0		2000		300			Remarks	
1223	10	12	S	_	1	H5-Surface	e		21								<u> </u>						
1:34						H5-1'			22														
1:49						H5-2'			23								Ш						
1:56						H5-3'			24														
2:16						H5-4'			25														
2:23						BG1-1'			26														
2:38	_					BG2-1'			27														
									F														
Addition	al Ins	truc	tions:	٧	Vork	Order/Billing	g: 21	421826						•	•		•				· · ·		
	••					icity of this sample.		ware that tampering with or intentionally mislabellin tion. Sampled by:	g the sample	location	on,	_				-					ved on ice the day C on subsequent d		d or received
Relinquish			ture)		Date	15/24 7	Time Received by: (Signature) Date Time Lab Use Only Received on ice: N																
Relinquish	ed by:	(Signa	ture)	les	Date		lels	Reseived by: (Signature)	Date 16/5 T1 T2 T3														
Relingyish					Date	Time	e	Received by: (Signature	Date		Time								14,18				
	\mathcal{I}	.X	86		lo.	15.24 2	W		10-16-	4	08	300		AVG	Tem	p °C	1_	_					
Sample Mat	rix: S -			- Sludge		queous, O - Other			Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Sam	ples ar	es are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above																					
samples is	applic	able o	nly to tho	se sam	ples r	eceived by the la	borato	ry with this COC. The liability of the laboratory	is limited to	the a	amour	nt paid	for o	n the re	port.								

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	8:00	Work Order ID:	E410161
Phone:	(575) 631-6977	Date Logged In:	10/15/24 10	6:35	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	10/22/24 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	te sample ID match the COC?		Yes			
	the 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		- Courter	
	I 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
	urn Around Time (TAT)				Commission by its maissing.	on COC by alignt
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by is missing	=
Sample C					Project Betelgeuse 19 F	ederal 6H has been
	ample 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		E410159-E410101.	
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	rmation				
	ample ID?	illiation.	Yes			
	ate/Time Collected?		Yes	l		
Co	ollectors name?		No			
Sample P	<u>reservation</u>					
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No			
	imple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	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			
Subcontra	act Laboratory					
	imples required to get sent to a subcontract laborator	rv?	No			
	subcontract laboratory specified by the client and if	-		Subcontract Lab	· NA	
				Suotomato Luc		
Chent in	<u>struction</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: 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:

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Lynn Jarboe

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

Cell: 505-320-4759

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Michelle Gonzales

Client Representative

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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

		2.10002 01					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: BA		Batch: 2443219
Benzene	ND	0.0250		1	10/26/24	10/29/24	
Ethylbenzene	ND	0.0250		1	10/26/24	10/29/24	
Toluene	ND	0.0250		1	10/26/24	10/29/24	
o-Xylene	ND	0.0250		1	10/26/24	10/29/24	
p,m-Xylene	ND	0.0500		1	10/26/24	10/29/24	
Total Xylenes	ND	0.0250		1	10/26/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130		10/26/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/26/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/29/24	
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	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130		10/26/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/26/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/29/24	
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		97.7 %	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

S2-5' E410332-02

Result	Reporting Limit		on Prepared	Analyzed	Notes
				7 Hary Zea	Batch: 2443219
		1		10/20/24	Batcii. 2443219
		1			
		1			
		1			
		1			
ND	0.0500	1	10/26/24	10/30/24	
ND	0.0250	1	10/26/24	10/30/24	
	115 %	70-130	10/26/24	10/30/24	
	94.9 %	70-130	10/26/24	10/30/24	
	111 %	70-130	10/26/24	10/30/24	
mg/kg	mg/kg	A	nalyst: BA		Batch: 2443219
ND	20.0	1	10/26/24	10/30/24	
	115 %	70-130	10/26/24	10/30/24	
	94.9 %	70-130	10/26/24	10/30/24	
	111 %	70-130	10/26/24	10/30/24	
mg/kg	mg/kg	A	nalyst: NV		Batch: 2444008
ND	25.0	1	10/28/24	10/29/24	
ND	50.0	1	10/28/24	10/29/24	
	99.6 %	50-200	10/28/24	10/29/24	
mg/kg	mg/kg	A	nalyst: IY		Batch: 2444058
ND	20.0	1	10/29/24	10/30/24	_
	mg/kg ND mg/kg ND nD mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 III % 94.9 % III % mg/kg ND 20.0 III % 94.9 % III % 111 % mg/kg mg/kg ND 25.0 ND 50.0 99.6 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg A 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 70-130 1 94.9 % 70-130 1 115 % 70-130 1 mg/kg mg/kg A ND 20.0 1 115 % 70-130 1 y4.9 % 70-130 1 mg/kg mg/kg A ND 25.0 1 ND 50.0 1 y9.6 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0500 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 70-130 10/26/24 94.9 % 70-130 10/26/24 111 % 70-130 10/26/24 MD 20.0 1 10/26/24 115 % 70-130 10/26/24 94.9 % 70-130 10/26/24 111 % 70-130 10/26/24 111 % 70-130 10/26/24 111 % 70-130 10/26/24 MD 25.0 1 10/26/24 ND 25.0 1 10/28/24 ND 50.0 1 10/28/24 ND </td <td>Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 10/30/24 ND 0.0500 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 11% 70-130 10/26/24 10/30/24 11% 70-130<!--</td--></td>	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 10/30/24 ND 0.0500 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 94.9 % 70-130 10/26/24 10/30/24 11% 70-130 10/26/24 10/30/24 11% 70-130 </td



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

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	Buten, 2 . 1,021)
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		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		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		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		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		97.3 %	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

S4-5' E410332-04

Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
				•	Tillalyzed	Batch: 2443219
			Allaryst. DA		10/20/24	Batch: 2443219
		1				
		1				
		1				
ND	0.0250	1				
ND	0.0500	1		10/26/24	10/30/24	
ND	0.0250	1		10/26/24	10/30/24	
	114 %	70-130		10/26/24	10/30/24	
	93.7 %	70-130		10/26/24	10/30/24	
	111 %	70-130		10/26/24	10/30/24	
mg/kg	mg/kg	A	Analyst: BA	1		Batch: 2443219
ND	20.0	1		10/26/24	10/30/24	
	114 %	70-130		10/26/24	10/30/24	
	93.7 %	70-130		10/26/24	10/30/24	
	111 %	70-130		10/26/24	10/30/24	
mg/kg	mg/kg	A	Analyst: NV	/		Batch: 2444008
ND	25.0	1		10/28/24	10/29/24	
ND	50.0	1		10/28/24	10/29/24	
	101 %	50-200		10/28/24	10/29/24	
mg/kg	mg/kg	A	Analyst: IY			Batch: 2444058
ND	20.0	1		10/29/24	10/30/24	
	mg/kg ND mg/kg ND nD mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 III % 93.7 % III % 111 % mg/kg mg/kg ND 20.0 III % 111 % mg/kg mg/kg ND 25.0 ND 50.0 I01 % mg/kg mg/kg mg/kg	Result Limit Dilu mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 114 % 70-130 93.7 % 70-130 111 % 70-130 93.7 % 70-130 111 % 70-130 111 % 70-130 mg/kg mg/kg ND 25.0 1 ND 50.0 1 101 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: BA ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 114 % 70-130 70-130 111 % 70-130 1 Mg/kg mg/kg Analyst: BA ND 20.0 1 114 % 70-130 1 mg/kg mg/kg Analyst: NV ND 25.0 1 ND 50.0 1 101 % 50-200 mg/kg Mg/kg Analyst: IY	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0500 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 93.7 % 70-130 10/26/24 111 % 70-130 10/26/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/26/24 114 % 70-130 10/26/24 93.7 % 70-130 10/26/24 111 % 70-130 10/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 10/28/24 ND 50.0 1 10/28/24 ND 50.0 1 10/28/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 10/30/24 ND 0.0500 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 ND 70-130 10/26/24 10/30/24 93.7 % 70-130 10/26/24 10/30/24 111 % 70-130 10/26/24 10/30/24 93.7 % 70-130 10/26/24 10/30/24 93.7 % 70-130 10/26/24 10/30/24 93.7 % 70-130 10/26/24 10/30/24 111 % 70-130 10/26/24 10/30/24 10/26/24



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

		2.10002 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Liiiit	Dil	ution	Frepared	Allalyzeu	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		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 mg/kg Analyst: BA		: 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

D 1	Reporting	D.1				27.
Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	BA		Batch: 2443219
ND	0.0250		1	10/26/24	10/30/24	
ND	0.0250		1	10/26/24	10/30/24	
ND	0.0250		1	10/26/24	10/30/24	
ND	0.0250		1	10/26/24	10/30/24	
ND	0.0500		1	10/26/24	10/30/24	
ND	0.0250		1	10/26/24	10/30/24	
	115 %	70-130		10/26/24	10/30/24	
	99.8 %	70-130		10/26/24	10/30/24	
	110 %	70-130		10/26/24	10/30/24	
mg/kg	mg/kg	Analyst: BA				Batch: 2443219
ND	20.0		1	10/26/24	10/30/24	
	115 %	70-130		10/26/24	10/30/24	
	99.8 %	70-130		10/26/24	10/30/24	
	110 %	70-130		10/26/24	10/30/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2444008
ND	25.0		1	10/28/24	10/29/24	
ND	50.0		1	10/28/24	10/29/24	
	103 %	50-200		10/28/24	10/29/24	
mg/kg	mg/kg		Analyst:	: IY		Batch: 2444058
ND	20.0		1	10/29/24	10/30/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 II5 % 99.8 % II0 % 110 % mg/kg mg/kg ND 20.0 II5 % 99.8 % II0 % 110 % mg/kg mg/kg ND 25.0 ND 50.0 I03 % mg/kg mg/kg mg/kg	Result Limit Dile mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IID 70-130 99.8 % 70-130 IIO % 70-130 mg/kg mg/kg ND 20.0 IID % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 IO3 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 115 % 70-130 99.8 % 70-130 110 % 70-130 mg/kg mg/kg Analyst: ng/kg mg/kg Analyst: nD 25.0 1 ND 50.0 1 103 % 50-200 mg/kg Mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0500 1 10/26/24 ND 0.0250 1 10/26/24 ND 0.0250 1 10/26/24 99.8 % 70-130 10/26/24 99.8 % 70-130 10/26/24 110 % 70-130 10/26/24 MD 20.0 1 10/26/24 99.8 % 70-130 10/26/24 99.8 % 70-130 10/26/24 110 % 70-130 10/26/24 110 % 70-130 10/26/24 110 % 70-130 10/26/24 10 % 70-130 10/26/24 10 % 70-130 10/26/24 10 % 70-130 10/26/24 10 % 70-130 <	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/26/24 10/30/24 ND 0.0500 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 ND 0.0250 1 10/26/24 10/30/24 115 % 70-130 10/26/24 10/30/24 99.8 % 70-130 10/26/24 10/30/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/26/24 10/30/24 99.8 % 70-130 10/26/24 10/30/24 99.8 % 70-130 10/26/24 10/30/24 110 % 70-130 10/26/24 10/30/24 10% 70-130<



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

S8-5'

		E410332-07				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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		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	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		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	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		99.2 %	50-200	10/28/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	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	Plains TX, 79355-0247		Project Manage		om Bynum				11/	1/2024 12:35:23PM
Result Limit Level Result Rec Limits RPD Limit Limit Rec Limits RPD Limit Rec Rec Result Rec		V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Blank (2443219-BLK1) Prepared: 10/26/24 Analyzed: 10/29/24	Analyte		Limit	Level	Result		Limits		Limit	
Benzene ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Ethylbenzene ND 0.0250	Blank (2443219-BLK1)							Prepared: 10	0/26/24 Anal	yzed: 10/29/24
Toluene ND 0.0250 o Xylene ND 0.0250 o Xylene ND 0.0250 o Xylene ND 0.0500 o Xylene ND 0.0500 o Xylene ND 0.0500 o Xylene ND 0.0500 o Ximrogate: Ironanfluorobenzene ND 0.0250 o Ximrogate: Ironanfluorobenzene ND 0.0500 o 116 70-130 o Ximrogate: Ironanfluorobenzene ND 0.553 o .5000 o 116 70-130 o Ximrogate: Ironanfluorobenzene ND 0.553 o .5000 o 111 70-130 o Ximrogate: Ironanfluorobenzene ND 0.553 o .5000 o 111 70-130 o Ximrogate: Ironanfluorobenzene ND 0.553 o .5000 o 111 70-130 o Ximrogate: Ironanfluorobenzene ND 0.553 o .5000 o .500	Benzene	ND	0.0250							
0-Xylene ND 0.0250	Ethylbenzene		0.0250							
ND 0.0500 ND 0.0250	Toluene		0.0250							
ND	o-Xylene		0.0250							
Surrogate: Bromofluorobenzene 0.578 0.500 116 70-130	• •									
Surrogate: 1,2-Dichloroethane-d4	Total Xylenes	ND	0.0250							
Compares Tolunne-d8	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			
Benzene 2.53 0.0250 2.50 101 70-130	Surrogate: Toluene-d8	0.553		0.500		111	70-130			
Ethylbenzene 2.53 0.0250 2.50 101 70-130	LCS (2443219-BS1)							Prepared: 10	0/26/24 Anal	yzed: 10/29/24
Totuene 2.55 0.0250 2.50 102 70-130 0-Xylene 2.66 0.0250 2.50 106 70-130 0-Xylene 5.34 0.0500 5.00 107 70-130 0-Xylene 5.34 0.0500 5.00 107 70-130 0-Xylene 7.99 0.0250 7.50 107 70-130 0-Xylene 7.99 0.0250 7.50 107 70-130 0-Xylene 82 0.500 119 70-130 0-Xylene 70-Xylene 70-Xylene 70-Xylene 70-Xylene 70-	Benzene	2.53	0.0250	2.50		101	70-130			
2.66 0.0250 2.50 106 70-130 107 70-13	Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Description	Toluene	2.55	0.0250	2.50		102	70-130			
Total Xylenes 7.99 0.0250 7.50 107 70-130	o-Xylene	2.66	0.0250	2.50		106	70-130			
Surrogate: Bromofluorobenzene 0.593 0.500 119 70-130	p,m-Xylene		0.0500	5.00		107	70-130			
Surrogate: 1,2-Dichloroethane-d4 0.484 0.500 96.7 70-130	Total Xylenes	7.99	0.0250	7.50		107	70-130			
CCS Dup (2443219-BSD1) Prepared: 10/26/24 Analyzed: 10/29/24	Surrogate: Bromofluorobenzene	0.593		0.500		119	70-130			
Prepared: 10/26/24 Analyzed: 10/29/24	Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Benzene 2.54 0.0250 2.50 102 70-130 0.691 23 Ethylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 Toluene 2.59 0.0250 2.50 104 70-130 1.79 24 o-Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 p,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 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130	Surrogate: Toluene-d8	0.555		0.500		111	70-130			
Ethylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 Toluene 2.59 0.0250 2.50 104 70-130 1.79 24 o-Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 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 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130 <td>LCS Dup (2443219-BSD1)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Prepared: 10</td> <td>0/26/24 Anal</td> <td>yzed: 10/29/24</td>	LCS Dup (2443219-BSD1)							Prepared: 10	0/26/24 Anal	yzed: 10/29/24
Ethylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 Toluene 2.59 0.0250 2.50 104 70-130 1.79 24 o-Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 p,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 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130 <td>Benzene</td> <td>2.54</td> <td>0.0250</td> <td>2.50</td> <td></td> <td>102</td> <td>70-130</td> <td>0.691</td> <td>23</td> <td></td>	Benzene	2.54	0.0250	2.50		102	70-130	0.691	23	
Toluene 2.59 0.0250 2.50 104 70-130 1.79 24 o-Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 p,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 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130 70-130		2.56				103	70-130	1.45		
p.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 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130	•	2.59	0.0250	2.50		104	70-130	1.79	24	
Total Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130 70-130	o-Xylene	2.69	0.0250	2.50		108	70-130	1.46	27	
Surrogate: Bromofluorobenzene 0.596 0.500 119 70-130	p,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	
Surrogate: 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

70-130



Surrogate: Toluene-d8

0.555

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 Organics by EPA 8015D - GRO		Nonhalogenated	Organics	by	y EPA 8015D - GRO	
--	--	----------------	----------	----	-------------------	--

Anal	yst: Γ
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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	0/26/24 An	alyzed: 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)/26/24 An	alyzed: 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 An	alyzed: 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			



Surrogate: n-Nonane

QC Summary Data

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

Plains 1X, /9355-024/		Project Manager	r: 10	m Bynum					11/1/2024 12:35:23PI
	Nonha	logenated Or		Analyst: NV					
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2444008-BLK1)							Prepared: 1	0/28/24	Analyzed: 10/28/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil 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	

50-200

253

LCS Dup (2444058-BSD1)

Chloride

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

20

QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Betelgeuse 19 F 01058-0007	ederal #6F	I			Reported:
Plains TX, 79355-0247		Project Manager:	'	Tom Bynum					11/1/2024 12:35:23PM
		Anions	by EPA	300.0/9056A	\				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 (2444058-BLK1)							Prepared: 1	0/29/24 A1	nalyzed: 10/30/24
Chloride	ND	20.0							
LCS (2444058-BS1)							Prepared: 1	0/29/24 Aı	nalyzed: 10/30/24
Chloride	254	20.0	250	·	102	90-110	·		

250

20.0

101

90-110

0.348

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	11/01/24 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

Page .	1	of <u>1</u>	
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Client: P	ima	Env	ironr	nent	al Se	rvic	es		T		Bill To						se On		i e	T		TA	\T	-	EPA Pr	ogram
Project: Betelgeuse 19 Federal #6H Attention: Devon Energy											Lab	WO#			Job N	luml	per TOST	1D	2D	3D	Sta	andard	CWA	SDWA		
Project Manager: Tom Bynum Address:												EC	ΠD	<u> </u>	<u>)2.</u>	DID	28	<u>1220</u>					X			
Address: 5614 N. Lovington Hwy. City, State, Zip Phone:														r		Analy	sis an	d Metho	<u>d </u>	_					RCRA	
City, State, Zip Hobbs, NM. 88240 Phone:													۱										ı		Chaha	
Phone: 806-782-1151 Email: tom@pimaoil.com												8013	3015									ł	NM CO	State	TVI	
Report due by: Pima Project # 1-379 (nAPP2427725929)										Š	þ	021	8	5	ğ		Σ			- 1	X CO	OT AZ	<u>'^</u>			
Time Date I was I lab										8	DRC	§ 6	λ 8 8	1s 60	ğ			ļ `			^ _		L			
Sampled Sampled Matrix Roof Containers Sample ID							Sample ID		Number			DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	20058				Remarks		
8:03	10	13	S		1		S1-5'													x						
8:17							S2-5'					a														
8:24							S3-5'					3														
8:37							S4-5'		_			7														
8:47							S5-5'					15						٠								
G:56							S7-5'					9														
8:59	\neg						S8-5'					7														
			•																							
Addition	al lı	struc	tions	s:	W	ork	Order/Billin	ıg: 21	1421	826																
										that tampering with or in	_	g the sample	locati	on,				_	-					on ice the day the subsequent day		d or received
Relinquished by: (Signature) Date Time Received by: (Signature) Date								10.25	24	7ime	4	3	Rece	ived	on ice:		ab U	se On	ly							
Relippuished by: (Signature) Date Time Received by: (Signature) Date								Date Ja	M	Time	15		T1			T2				T3						
Relinquished by: (Signature) Date Tiline Received by (Signature) Date 10.73									Date 10 • 28 • 2	14	Time	:α)	AVG	Tem	ο°C	4)								
Sample Mat	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container											Туре	e: g - í						er gla	iss, v	· VOA		140			
Note: Sam	ples	are dis	cardeo	30 da	ys afte	er res	sults are reporte	d unle		ner arrangements are		amples will	be ret	turnec	to cli	ient o	r dispo	sed of	f at the clie				eport	for the anal	ysis of the	above
										ith this COC. The liabil																

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.

Client:	Pima Environmental Services-Carlsbad	Date Received:	10/28/24 0	8:00		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:		7:00 (4 day TAT)		Logged III by.	Cartini Mars
Eman.	tome pinaon.com	Due Date.	11/01/211	7.00 (1 day 1711)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	tch the COC	No				
	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	e <u>e</u>	, o al 101		
5. Were a	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Desclution
	i.e, 15 minute hold time, are not included in this disucssi	on.				Comment	s/Resolution
	Turn Around Time (TAT)				Sampled	by not provide	od on COC
	COC indicate standard TAT, or Expedited TAT?		Yes		Sampicu	by not provide	d on coc.
Sample C							
	sample cooler received?		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				
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 ar minutes of sampling	e received w/i 15	Yes				
13. II no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<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	ners collected?	Yes				
Field Lab		•					
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		No				
Sample P	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
			1421				
	act Laboratory	9	NI.				
	amples required to get sent to a subcontract laborato	•	No NA	0.1	3.1.4		
29. was a	subcontract laboratory specified by the client and in	r so wno?	NA	Subcontract Lab): NA		
Client Ir	<u>istruction</u>						

Date

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

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

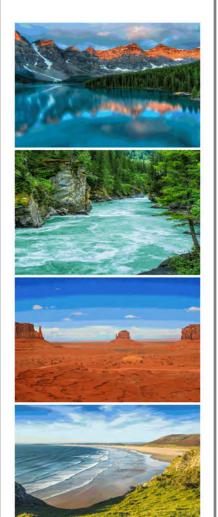
Instructions: Please take note of any NO checkmarks.

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.

Client:	Pima Environmental Services-Carlsbad	Date Received:	10/28/24 08	·00		Work Order ID:	E410333
							Caitlin Mars
Phone: Email:	(575) 631-6977 gio@pimaoil.com	Date Logged In: Due Date:	10/25/24 15	:00 (4 day TAT)		Logged In By:	Cattin Mars
Elliali.	дю финаон. сон	Due Date.	11/01/24 17	.00 (4 day 1A1)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	ourier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	No	Currer. <u>c</u>	<u> </u>		
	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted i					C	/D l
	i.e, 15 minute hold time, are not included in this disucssi	on.				Comment	s/Resolution
	Furn Around Time (TAT)				No of cont	tainers and sa	mpled by missing
	COC indicate standard TAT, or Expedited TAT?		Yes			iamicis and sa	inpica by inissing
Sample C					on COC.		
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling	re received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4 v	<u>c</u>				
Sample C			NI-				
	queous VOC samples present? OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
			NA NA				
	trip blank (TB) included for VOC analyses?	า					
	on-VOC samples collected in the correct containers appropriate volume/weight or number of sample contains.		Yes Yes				
Field Lab	• • • • • • • • • • • • • • • • • • • •	ners conected:	165				
	field sample labels filled out with the minimum inf	ormation:					
	ample ID?	omination.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved r	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes,	does the COC specify which phase(s) is to be anal	yzed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborate	ory?	No				
	subcontract laboratory specified by the client and i	-		Subcontract Lab	o: na		
	estruction						
CHEILI	istruction .						

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: 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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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

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

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.



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

C1-1.5' E411040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	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	Analys	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	Analys	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	Analys	st: DT		Batch: 2445061
Chloride	1590	20.0	1	11/06/24	11/06/24	

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	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Ana	lyst: 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		90.0 %	70-130	11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2445058
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane		95.6 %	50-200	11/06/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2445061
Chloride	614	20.0	1	11/06/24	11/06/24	



Surrogate: 4-Bromochlorobenzene-PID

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

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)							Prepared: 11	1/06/24 Aı	nalyzed: 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)							Prepared: 11	1/06/24 Aı	nalyzed: 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)							Prepared: 11	1/06/24 Aı	nalyzed: 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

LCS Dup (2445057-BSD2)

Gasoline Range Organics (C6-C10)

43.1

7.62

QC Summary Data

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

Fiams 1A, 79333-0247		rioject Manage	1. 10	iii Byllulli				11	70/2024 3.33.201 WI
	Non	Analyst: SL							
Analyte	Result	Reporting Limit	Spike Level	- ·	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445057-BLK1)]	Prepared: 1	1/06/24 Anal	lyzed: 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	lyzed: 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			

50.0

8.00

86.1

95.2

70-130

70-130

20.0



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

QC Summary Data

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

Plains 1A, /9353-024/		Project Manage	r: 10	m Bynum					11/0/2024 5:55:20PWI
	Nonha	Nonhalogenated Organics by EPA 8015D - DRO/ORO							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2445058-BLK1)							Prepared: 1	1/06/24 A	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			
LCS (2445058-BS1)							Prepared: 1	1/06/24 A	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132			
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			
LCS Dup (2445058-BSD1)							Prepared: 1	1/06/24 A	nalyzed: 11/06/24
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132	5.28	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



Chloride

250

QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Betelgeuse 19 F 01058-0007	ederal #61	Н			Reported:
Plains TX, 79355-0247		Project Manager Anions		Tom Bynum A 300.0/9056 A	<u> </u>				11/6/2024 3:35:26PM 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 (2445061-BLK1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24
Chloride	ND	20.0							
LCS (2445061-BS1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2445061-BSD1)							Prepared: 1	1/06/24 Ar	nalyzed: 11/06/24

250

20.0

100

90-110

1.01

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

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.



Project Information

Client: Pima Environmental Services

Project: Betelgeuse 19 Federal #6H

ay						Page 1	or <u>1</u> _
Lab	Use Only	[TA	AT	EPA P	rogram
FAIIVAU		1D	2D	3D	Standard	CWA	SDWA
IF4IIN40	101058-0007	X					

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Time Sampled	Date Sampled	Matrix	No. of Containers	Samp	le ID								Lab Number	DRO/ORO by 8015	GRO/DRO by	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride			верос	вдрос			Remar	ks	
5:16	11/4/24	S	1	C1-	1.5'								1									Х						
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elinguishe	d by: (Signa	ture)	Dațe	15/2		ime !		Resei	reg by:	(Signatur	14) 7,0nga	les	late	<u> </u>	Time	401		Rec	eived	on ic	 :e:		b Us N	ıly				
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Chain of Cu

Bill To

Attention: Devon Energy

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



ō

envirotech Inc.

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.

Client:	Pima Environmental Services-Carlsbad	Date Received:	11/06/24 (07:30		Work Order ID:	E411040
Phone:	(575) 631-6977	Date Logged In:	11/05/24	14:40		Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	11/06/24	17:00 (0 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	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
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sampled by	y not provide	d on COC.
Sample C	<u>Cooler</u>						
7. Was a s	sample 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		temperature. 1	<u>~</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'	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved n	netais?	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						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	b: NA		
Client In	<u>istruction</u>						
L							

Date

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

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 405518

QUESTIONS

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	405518
ı		Action Type:
ı		[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

ocation 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				

lature and Volume of Release	
aterial(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.

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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 405518

QUESTI	ONS (continued)					
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 405518 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)					
QUESTIONS						
Nature and Volume of Release (continued)						
Is this a gas only submission (i.e. only significant Mcf values reported)	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	afety 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.					
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.					
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases 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 405518

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405518
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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 ar	nd 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 p	plan approval with this submission	Yes		
Attach a comprehensive report der	Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.			
Have the lateral and vertica	l extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area		No		
Soil Contamination Sampling	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 wil	I the remediation commence	01/15/2025		
On what date will (or did) the final sampling or liner inspection occur		02/01/2025		
On what date will (or was) the remediation complete(d)		02/28/2025		
What is the estimated surface area (in square feet) that will be reclaimed		200		
What is the estimated volume (in cubic yards) that will be reclaimed		11		
What is the estimated surfa	ce area (in square feet) that will be remediated	200		
What is the estimated volume (in cubic yards) that will be remediated		11		
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.

Released to Imaging: 12/10/2024 10:15:18 AM

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 4

Action 405518

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405518
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 11/21/2024

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 405518

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405518
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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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 405518

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405518
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	397951	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024	
What was the (estimated) number of samples that were to be gathered	2	
What was the sampling surface area in square feet	200	

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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

CONDITIONS

Action 405518

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405518
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	App ID 405518: The remediation plan is approved as written. Devon has 90-days (March 10, 2025) to submit to OCD its appropriate or final remediation closure report.	12/10/2024