Page 3

Oil Conservation Division

	Page 1 of 16 4
Incident ID	nAPP2208340802
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{>55}{bgs}$ (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No □ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖾 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	$\Box Yes \boxtimes No$
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
Die the release impact areas not on an exploration, development, production, or storage site:	🗌 Yes 🛛 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

🛛 Field data

Data table of soil contaminant concentration data

Depth to water determination

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Photographs including date and GIS information

- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/10/2023 9:10:06 A	Mata of New Marias		Page 2 of 164				
		Incident ID	nAPP2208340802				
Page 4 Or	l Conservation Division	District RP					
		Facility ID					
		Application ID					
regulations all operators are required to rep public health or the environment. The acc failed to adequately investigate and remed	7 Date: <u>1/1</u>	erform corrective actions for relevelieve the operator of liability sheater, surface water, human health	eases which may endanger ould their operations have or the environment. In				
OCD Only							
Received by:	Date	::					

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Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Dale Woodall Title: Env. Professional Signature: Dale Woodall Date: <u>1/10/2023</u> email: Dale.Woodall@dvn.com Telephone: 575-748-1838 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Printed Name: Title:



Souder, Miller & Associates • 201 S. Halagueno St. • Carlsbad, NM 88220 (575) 689-8801

January 9, 2023

#5E31003-BG3

NMOCD District 1 1625 North French Drive Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Seawolf 1-12 CTB 1 (nAPP2208340802), Lea County, New Mexico

1.0 Introduction

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a produced water release related to oil and gas production activities at the Seawolf 1-12 CTB 1 (nAPP2208340802). The release site is located in Unit C, Section 1, Township 26S, Range 33E, Lea County, New Mexico, on public land administered by the Bureau of Land Management. Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

	Table 1: Release Information and Closure Criteria							
Name	Seawolf 1-12 CTB 1	Company	Devon Energy Production Company					
API Number	N/A	Location	32.07726, -103.52667					
Incident Number	nAPP2208340802	Land Status	Federal (BLM)					
Date of Release	March 24, 2022							
Source of Release	Ball valve on isolated produced wa	iter line develope	d a leak					
Released Volume	8 barrels (bbls) Produced Water Recovered Volume 5 bbls Produced Wate							
NMOCD Closure Criteria	51 to 100 feet bgs							

2.0 Background

On March 24, 2022, a produced water release was discovered at the Seawolf 1-12 CTB 1 site. Initial response activities were conducted by Devon, and included source elimination and site security, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. A copy of the notification of release is included in Appendix A.

3.0 Site Information and Closure Criteria

The Seawolf 1-12 CTB 1 site is located approximately 20 miles southwest of Jal, New Mexico on Federal (BLM) land at an elevation of approximately 3,321 feet above mean sea level (amsl).

Depth to Groundwater

A test well, C-04628, was registered with the New Mexico Office of the State Engineer (NMOSE) and drilled approximately 860 feet north-northeast of the release location. No groundwater was encountered to the total depth drilled of 55 feet below grade surface (bgs). A search of the NMOSE New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System did not yield any additional results within ½-mile of the site. A copy of the water well documentation is included as Appendix B.

Page 2 of 4

Seawolf 1-12 CTB 1 North Release Closure Report January 9, 2023

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the NMOSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown on Figure 1.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an ephemeral tributary to Salado Draw, located approximately four miles to the west.

Closure Criteria Determination

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth between 51 and 100 feet bgs.

4.0 Release Characterization and Remediation Activities

On May 12, 2022, SMA personnel performed an initial release assessment which included the advancement of fourteen soil borings (SB-01 through SB-14) using a hand auger. Soil samples were collected from the surface and every 0.5- to 1-foot depending on subsurface conditions to the total boring depths. All soil borings were terminated on hard caliche at depths ranging from just below the surface to 1.5 feet bgs. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. Soil boring locations are illustrated on Figure 3 and field notes are included in Appendix C.

Initial release assessment samples were collected and submitted for laboratory analysis in accordance with the sampling protocol included in Appendix D. The samples were analyzed for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Laboratory analytical results are summarized in Table 3 and illustrated on Figure 3.

Based on the findings of the initial release assessment, the impacted area was excavated in two phases to maintain open access to the remainder of the facility. Excavation confirmation samples were collected on July 22, and August 4, 17, and 22, 2022. A copy of the sampling notifications is included in Appendix A. The final remediation excavation measured approximately 45 feet by 28 feet with a maximum depth of 4 feet bgs. Excavation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix D. The confirmation samples were analyzed for chloride, BTEX, and TPH in the same manner as described above for the initial release assessment samples.

Laboratory analytical results report benzene, total BTEX, and total TPH concentrations below laboratory reporting limits (RLs) which are below the NMOCD Closure Criteria. Chloride concentrations are reported ranging from below laboratory RLs up to 1,750 mg/kg, which are below the NMOCD Closure Criteria of 10,000 mg/kg.

Excavated soils were transported to an NMOCD permitted surface waste facility for remediation/disposal. The excavation was backfilled with clean, imported material and graded to match the surrounding area. Excavation

Seawolf 1-12 CTB 1 North Release Closure Report January 9, 2023

extents and closure confirmation sample locations are depicted in Figure 3. A photo log is included in Appendix C. Confirmation laboratory results are summarized in Table 4. Laboratory reports are included in Appendix E.

5.0 Recommendations

As demonstrated in Table 4, all closure confirmation samples meet NMOCD Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

SMA recommends no further action and requests closure of Incident Number nAPP2208340802.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Heather Woods at 505-716-2787.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Sarahmay Schlea Staff Scientist

Heather M. Woods

Heather M. Woods, P.G. Project Geoscientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/

USGS National Water Information System: Web Interface online water well database https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format= html

ATTACHMENTS:

Figures:

Figure 1: Topographic Site Map Figure 2: Aerial Site Map Figure 3: Site and Sample Location Map

Engineering • Environmental • Surveying

Tables:

Table 2: NMOCD Closure CriteriaTable 3: Summary of Initial Release Assessment Field Screening and Laboratory Analytical ResultsTable 4: Summary of Excavation Confirmation Laboratory Analytical Results

Appendices:

Appendix A: Correspondence Appendix B: Water Well Data Appendix C: Field Notes and Photograph Log Appendix D: Sampling Protocol Appendix E: Laboratory Analytical Reports Page 4 of 4

FIGURES

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Received by OCD: 1/10/2023 9:10:06 AM



Released to Imaging: 2/1/2023 10:45:55 AM



Received by OCD: 1/10/2023 9:10:06 AM



Released to Imaging: 2/1/2023 10:45:55 AM

TABLES

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Table 2: NMOCD Closure Criteria

Devon Energy Production Company Seawolf 1-12 CTB 1 nAPP2208340802

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	>55	United States Geological Survey Topo Map
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	New Mexico Office of the State Engineer
Hortizontal Distance to Nearest Significant Watercourse (ft)	20,650	United States Geological Survey Topo Map

Closure Criteria (19.15.2	29.12.B(4) and	d Table 1 NMAC)				
		Closu	ure Criteria	ı (units in n	ng/kg)	
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant						
watercourse?	No					
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by						
less than 5 households for domestic or stock watering purposes?	No	600 1			50	10
<1000' from fresh water well or spring?	No		100			
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital,		000	100		50	10
institution or church?	No					
within incorporated municipal boundaries or within a defined municipal						
fresh water well field?	No					
<100' from wetland?						
within area overlying a subsurface mine						
within an unstable area?]					
within a 100-year floodplain?	No					

<u>SMA</u>

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Devon Energy Production Co Seawolf 1-12 CTB 1

nAPP2208340802

Summary of Initial Release Assessment Field Screening and Laboratory Analytical Results

Sample ID	Sample Date	Depth of Sample	Field Scree	Field Screening Method		d 8021B	Method 8015D					Method 300.0
Sample ID	Sample Date	(feet bgs)	VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Cl-
		(IEEE DES)	ppm	mS	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/kg	mg/Kg	mg/Kg	mg/Kg
			NMOCD Closu	re Criteria	50	10	-		1,000		2,500	10,000
		0	2.5	5.36	<0.100	<0.0250	<20.0	32.4	32.4	<50.0	32.4	11,500
SB-01	5/12/2022	1	1.1	1.35	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	2,420
		2	2.3	2.19	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	395
		0	2.1	3.7	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	14,700
SB-02	5/12/2022	1	1.1	0.11	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	50.0
		2	0.6	0.1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	46.7
		0	1.4	5.16	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	12,100
SB-03	5/12/2022	1	0.8	0.71	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,710
		1.5	0.6	0.17	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	172
SB-04	5/12/2022	0	0.7	0.23	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	254
SB-05	5/12/2022	0	0.7	0.19	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	188
SB-06	г /12 /2022	0	0.8	0.43	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	524
38-00	5/12/2022	1	0.4	0.09	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	21.5
SB-07	5/12/2022	0	0.6	0.12	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	110
SB-08	5/12/2022	0	0.8	0.23	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	214
SB-09	5/12/2022	0	0.5	8.53	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	17,200
30-09	5/12/2022	1	1.2	0.7	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,320
SB-10	F /12 /2022	0	0.7	1.28	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,490
30-10	5/12/2022	1	0.9	0.11	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	27.1
SB-11	5/12/2022	0	0.65	0.06	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SB-12	5/12/2022	0	0.2	0.23	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	50.7
SB-13	5/12/2022	0	0.5	0.11	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	217
SB-14	5/12/2022	0	0.4	0.11	<0.100	<0.0250	<20.0	<25.0		<50.0	<95.0	80.9

Notes:

NMOCD - New Mexico Oil Conservation Division

bgs - below grade surface

VOC - volitile organic compound

- PID photoionization detector
- ppm parts per million

EC - electrical conductivity

mS - microseimens

GRO - gasoline range organics

DRO - diesel range organics

SMA

MRO - motor oil range organics

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

mg/kg - milligrams per kilogram

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Devon Energy Production Co

Summary of Excavation Confirmation Laboratory Analytical Results

Seawolf 1-12 CTB 1 nAPP2208340802

		Depth of	N d a tha	100210			Viethod 8015	D		Method
Sample ID	Sample Date	Sample (feet	BTEX	od 8021B	CDO	300.0				
				Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
	NMOCD Closu	bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	NIVIOCD CIOSU	re Criteria	50	10	 Confirmat		1,000		2,500	10,000
	7/22/2022			nal Excavatio		-		.50.0		164
CS01	7/22/2022	2	<0.100	< 0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	164
CS02	7/22/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,750
CS06	7/22/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	886
CS07	7/22/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	323
CS08	8/4/2022	4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	222
CS09	8/4/2022	4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	455
CS10	8/17/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
CS11	8/17/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	338
CS12	8/22/2022	4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	122
CS13	8/17/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	256
SW1	7/22/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,010
SW2	7/22/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	208
SW3	7/22/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	531
SW4	7/22/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	969
SW5	8/4/2022	2 to 4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	68.7
SW6	8/4/2022	2 to 4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SW7	8/17/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	21.7
SW8	8/17/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SW9	8/17/2022	0 to 2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	165
SW10	8/22/2022	0 to 4	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	62.2
	, ,	<u> </u>		Samples Rer						-
CS03	7/22/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	2,060
CS04	7/22/2022	2	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	666
CS05	7/22/2022	2	<0.100	< 0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,270
CS12	8/17/2022	2	<0.100	< 0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	664
Notes:	NMOCD - Nev	v Mexico O							line range org	

bgs - below grade surface

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics DRO - diesel range organics MRO - motor oil range organics mg/kg - milligrams per kilogram

APPENDIX A CORRESPONDENCE

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

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

District III

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

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

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

QUESTIONS

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Action 85545

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	85545
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source				
Please answer all of the questions in this group.				
Site Name	SEAWOLF 1-12 CTB 1			
Date Release Discovered	03/24/2022			
Surface Owner	Federal			

Incident Details

Please answer all of the questions in this group.					
Incident Type	Produced Water Release				
Did this release result in a fire or is the result of a fire	No				
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	Νο				
Has this release substantially damaged or will it substantially damage property or the environment	Νο				
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No				

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 8 BBL Recovered: 5 BBL Lost: 3 BBL]			
Is the concentration of dissolved 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)	Was dispatched to location on a Hi Oil Level Alarm and upon arrival noticed a ball valve that was isolated and previously flagged had developed a leak causing a spill of produced water on the ground. All fluids stayed on location. No fluids were in a lined containment. Immediately turned off all water transfer pumps and isolated at the edge of location as well as all water transfer pumps.			

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

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

District III

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

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

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

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	85545
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

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 19.15.29.7(A) NMAC	No, minor release.		
Reasons why this would be considered a submission for a notification of a major release			
If YES, was immediate notice given to the OCD, by whom	Not answered.		
If YES, was immediate notice given to the OCD, to whom	Not answered.		
If YES, was immediate notice given to the OCD, when	Not answered.		
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial	Response
---------	----------

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.			
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the			

follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

Page 18cof 164

QUESTIONS, Page 2

Action 85545

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

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

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

ACKNOWLEDGMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	85545
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

$\overline{\lor}$	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.			
M	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.			
	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.			
V	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.			
V	I acknowledge the fact that 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.			
M	I acknowledge the fact that, 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.			

ACKNOWLEDGMENTS

Action 85545

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

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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

Operator:	OGRID:	i.
DEVON ENERGY PRODUCTION COMPANY, LP	6137	l.
333 West Sheridan Ave.	Action Number:	l.
Oklahoma City, OK 73102	85545	I
	Action Type:	l.
	[NOTIFY] Notification Of Release (NOR)	i i

CONDITIONS

Created By	Condition	Condition Date
wdale	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C- 141.	3/24/2022

CONDITIONS

Page 20eof 164

Action 85545

From:	Sarahmay Schlea
Sent:	Wednesday, July 20, 2022 4:14 PM
То:	dale.woodall@dvn.com; ocd.enviro@state.nm.us; Ashley Maxwell
Cc:	Heather Woods; Georgeann Goodman
Subject:	48-hr Notification

Good Afternoon,

Souder, Miller and Associates will be on location Friday, July 22, beginning at 9:00, to conduct confirmation sampling at the SeaWolf 1-12 CTB 1 (napp2208340802) located at 32.07917228, -103.52616097. Please consider this your 48-hour notification.

Many Thanks,

Sarahmay Schlea

From:	Sarahmay Schlea
Sent:	Tuesday, August 2, 2022 11:34 AM
То:	Woodall, Dale; Enviro, OCD, EMNRD; Heather Woods; Ashley Maxwell
Cc:	Georgeann Goodman

Good Morning,

Souder, Miller and Associates will be on location Thursday, August 4, beginning at 9:00, to conduct confirmation sampling at the SeaWolf 1-12 CTB 1 (napp2208340802, napp2102637490) located at 32.07917228, -103.52616097. Please consider this your 48-hour notification.

Many Thanks,

Sarahmay Schlea

×		

Stronger Communities by Design

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~		×	×	tinkini.htt

www.soudermiller.com

Sarahmay Schlea Staff Scientist I

(she/her)

Direct/Mobile: <u>330-958-5689</u> Office: <u>575-449-2758</u>

201 S Halagueno St Carlsbad, NM 88220

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

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From:	Heather Woods
Sent:	Monday, August 15, 2022 12:14 PM
То:	Enviro, OCD, EMNRD
Cc:	Woodall, Dale; Sarahmay Schlea; Georgeann Goodman
Subject:	Confirmation Sampling Notification - Devon Seawolf 1-12 CTB 1 (napp2208340802,
	napp2102637490, napp2133355460, napp2125141291, napp2106443694)

Good evening,

Souder, Miller and Associates will be on location Wednesday, August 17, beginning at 7:30am, to conduct additional confirmation sampling at the SeaWolf 1-12 CTB 1 (napp2208340802, napp2102637490, napp2133355460, napp2125141291, napp2106443694) located at 32.07917228, -103.52616097.

Many Thanks, Heather

Heather Woods, P.G. *Project Geoscientist*

Personal Registrations: UT Professional Geologist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)



Souder, Miller & Associates

Engineering ♦ Environmental ♦ Geomatics 401 West Broadway Farmington, NM 87401 (505) 716-2787 (mobile) (505) 325-7535 (office) www.soudermiller.com



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From:	Sarahmay Schlea
Sent:	Wednesday, July 20, 2022 4:14 PM
То:	dale.woodall@dvn.com; ocd.enviro@state.nm.us; Ashley Maxwell
Cc:	Heather Woods; Georgeann Goodman
Subject:	48-hr Notification

Good Afternoon,

Souder, Miller and Associates will be on location Friday, July 22, beginning at 9:00, to conduct confirmation sampling at the SeaWolf 1-12 CTB 1 (napp2208340802) located at 32.07917228, -103.52616097. Please consider this your 48-hour notification.

Many Thanks,

Sarahmay Schlea

Oil Conservation Division

	Page 25 of 164
Incident ID	nAPP2208340802
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{>55}{\text{bgs}}$ (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No □ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	$\Box Yes \boxtimes No$
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
Die die release impact areas not on an exploration, development, production, or storage site:	□ Yes ⊠ No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/10/2	023 9:10:06 AM State of New Mexico				Page 26 of 16
				Incident ID	nAPP2208340802
Page 4	Oil Conservation Division			District RP	
				Facility ID	
				Application ID	
regulations all operators ar public health or the environ failed to adequately investi	Voodall	ifications and per OCD does not rel eat to groundwate f responsibility fo	form corr ieve the o er, surface r complia v. Profess	ective actions for releperator of liability she water, human health nce with any other fe	eases which may endanger would their operations have a or the environment. In
OCD Only					

Page 6

Oil Conservation Division

Incident ID	nAPP2208340802
District RP	
Facility ID	
Application ID	

Page 27 of 164

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following i	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:Dale Woodall	Title:Env. Professional
Signature: Dale Woodall	Date: <u>1/10/2023</u>
email: <u>Dale.Woodall@dvn.com</u>	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Jennifer Nobui</u>	Date: 02/01/2023
Printed Name: Jennifer Nobui	Title:Environmental Specialist A

APPENDIX B WATER WELL DATA



(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)	(quar					NE 3=SW b largest)	,	33 UTM in meters)		(In fee	t)
POD Number	POD Sub- Code basin C	ounty	Q 64 ⁻	-		c Tws	Rng	х	Y	-	-	Water Column
<u>C 02294</u>	CUB	LE	4	4 3	3 11	26S	33E	637465	3547003 🌍	200	145	55
C 02295	CUB	LE	2	2 4	12	26S	33E	639865	3547624 🌍	250	200	50
C 04628 POD1	CUB	LE	1	1 2	2 01	26S	33E	639121	3550219 🌍			
									Average Depth to	o Water:	172 1	eet
									Minimum	n Depth:	145 1	eet
									Maximum	n Depth:	200 f	eet
Record Count: 3												

PLSS Search:

Section(s): 1, 2, 11, 12

Township: 26S

Range: 33E



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

										the second states of the			
NO	OSE POD NO. POD 1 (TW		0.)		well tag id no. N/A			OSE FILE NO(S C-4628	5).				
GENERAL AND WELL LOCATION	WELL OWNE Devon Ener		S)					PHONE (OPTIC 575-748-183					
F	WELL OWNE	R MAILIN	IG ADDRESS					CITY			STATE	3	ZIP
WELI	6488 7 Riv	ers Hw	у		Artesia			NM	88210				
QN	WELL		D	EGREES	MINUTES	SECONDS							
ΓV	LOCATION	NL	ATITUDE	32	4	46.64	Ν	* ACCURACY	REQUIRED: C	ONE TENI	TH OF A	SECOND	
RA	(FROM GP	S)		103	31	34.28	W	* DATUM REQ	UIRED: WGS	84			
ENE			ONGITUDE										
1. G			ING WELL LOCATION T T26S R33S NMPM		RESS AND COMMON	LANDMAK	KS – PLS	S (SECTION, TO	WNSHJIP, KAP	NGE) WHI	ERE AV	AILABLE	
	LICENSE NO.		NAME OF LICENSEI	DRILLER	х				NAME OF W	VELL DRI	LLING	COMPANY	
	124	9			Jackie D. Atkins							g Associates, I	nc.
	DRILLING ST 6/9/20		DRILLING ENDED 6/9/2022		MPLETED WELL (FT)) B		le depth (ft) ±55	DEPTH WA	TER FIRS	T ENCO N/.	DUNTERED (FT) A	
N	COMPLETED	WELL IS	: ARTESIAN	/ DRY HO	LE SHALLOV	V (UNCONF	NED)		WATER LEVE PLETED WELI		A	DATE STATIC	
TIO	DRILLING FL	UID:	AIR	MUD	ADDITIVE	S - SPECIF	r:						
2. DRILLING & CASING INFORMATION	DRILLING M	ETHOD: [ROTARY HAM	MER CAB	LE TOOL 🔽 OTHE	R – SPECIF	r: H	Iollow Stem A	Auger	CHECK INSTAL	HERE II LED	F PITLESS ADAI	TER IS
NFC	DEPTH (feet bgl) BORE HOLE CASIN			CASING	MATERIAL AND	OR		CDIC	CASIN	IG	CAS	SING WALL	
Igi	FROM TO DIAM			ORADE			ASING NECTION				IICKNESS	SLOT SIZE	
SIN			(inches)	(include each casing string, and			Т	YPE ling diameter)	(inches)		1	(inches)	(inches)
CA	0	55	±6.5		Boring-HSA	- (*	uu coup						
G&													
TIN													
RII													
2. D													
	DEPTH ((feet bgl)	BORE HOLE	1	ST ANNULAR SE	AL MATE	RIAL A	AND	AMO	DUNT		METHO	D OF
AL	FROM	TO	DIAM. (inches)		VEL PACK SIZE-I					c feet)		PLACEM	
ERI													
TA													
RM													
ANNULAR MATERIAL									DEED		1162	2022 pm3:11	1
AN													
З.													
FOR	OSE INTERI	NAL US	E 28 - 201 /		POD NO			WR-20				(Version 01/2	3/2022)

FILE NO. C	4628-2021	POD NO.		TRN NO.	726/82	
LOCATION	26.33.01.112	•	WELL	TAG ID NO.		PAGE 1 OF 2

•

	DEPTH (1	feet bgl)										ESTIMATED
	FROM	FROM TO THICKNESS (feet) COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)										YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4	Sand, Fine-grained	l, poorly graded, un		Y	✓ N				
	4	14	10	Sand, Fine-grained,	poorly graded, sem	i-consoli	dated 7.	5 YR 5/4, Brow	n	Y	✓ N	
	14	19	5	Limeste	one, consolidated 10	YR 7/4.	Pale Br	own		Y	✓ N	
	19	55	36	Sand, Fine-grai	ined, poorly graded,	7.5 YR	6/8, Red	dish Yellow		Y	✓ N	
										Y	N	
T										Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
DOU										Y	N	
ICI										Y	N	
LOC										Y	N	
GEO										Y	N	
RO										Y	N	
HYD										Y	N	
4										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	ISED TO ES	STIMATE YIELD	OF WATER-BEARIN	G STRATA:				TOTAL E	STIM	ATED	
	PUM	P 🗖 A	IR LIFT	BAILER OT	HER – SPECIFY:				WELL Y	IELD	(gpm):	0.00
NOIS	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SH								
RVISI	MISCELLA	NEOUS IN	FORMATION: TO	emporary well materia	al removed and so	il boring	g backf	illed using dri	ll cuttings	from	n total d	epth to ten feet
TEST; RIG SUPERVI			be 27	elow ground surface(b	gs), then hydrated	l benton	ite chip	os ten feet bgs	to surface	ð.		
DIG			Se	eawolf 1-12 CTB 1								
JT; F								05	e on j	UN 1	6 202	2 pm3)]]]
TES	PRINT NAM	AE(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SU	JPERVI	SION O	F WELL CONS	TRUCTIO	ON OT	THER TH	IAN LICENSEE:
S.	Shane Eldri	dge, Came	ron Pruitt									
URE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 30 DAYS AFTER COM	D THAT HE OR S	HE WIL	L FILE					
SIGNATURE	Jack k	Itkins		Jac	ckie D. Atkins					6/16/	2022	
6.		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME		_				DATE	
FOI	R OSE INTER	NAL USE						WR-20 WEI	LRECOP	D&1	OG (Va	rsion 01/28/2022)
	E NO. C - C	462	2. POD	- (POD NO.			TRN NO.	72	61	82	101011 V1/20/2022)
	CATION	2		01.112			WELL	TAG ID NO.				PAGE 2 OF 2

Received by OCD: 1/10/2023 9:10:06 AM

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 726182 File Nbr: C 04628 Well File Nbr: C 04628 POD1

Jun. 16, 2022

DALE WOODALL DEVON ENERGY 6488 7 RIVERS HWY ARESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/24/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/24/2023.

If you have any questions, please feel free to contact us.

Sincerely amaral

Maret Amaral (575)622-6521

drywell



June 8, 2022

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

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4628 Pod1at Seawolf 1-12 CTB 1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4628 Pod1.

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

Sincerely,

Gron Middlam

Lucas Middleton Enclosures: as n

as noted above

OSE DIT JUN 16 2022 PM3:11



(A CLW##### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced O=orphaned,				<i>.</i>							
& no longer serves a water right file.)	C=the file is closed)	(quarters are 1=NW 2=NE 3=SW (quarters are smallest to largest)							(In feet)			
	POD Sub-		-				Dura	v	Y	-	-	Water
POD Number C_02291	Code basin C CUB	LE				26S		X 640825	Y 3550140* 🌍	220	160	Column 60
C 02292 POD1	CUB	LE	4 1	12	06	26S	34E	640992	3549987 🌍	200	140	60
C 03441 POD1	С	LE	4 1	12	06	26S	34E	640971	3550039 🌍	250		
C 03442 POD1	С	LE	4 1	12	06	26S	34E	641056	3550028 🌍	251		
									Average Depth to Water:			eet
									Minimum Depth:			eet
						Maximum Depth:		160 f	eet			
Record Count: 4				_								
PLSS Search:												

Section(s): 6, 7

Township: 26S

Range: 34E

*UTM location was derived from PLSS - see Help



No records found.

PLSS Search:

Section(s): 31

Township: 25S

Range: 34E



No records found.

PLSS Search:

Section(s): 35, 36

Township: 25S

Range: 33E
APPENDIX C FIELD NOTES AND PHOTOGRAPH LOG

4
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-
5
0
8
3
0
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tion Name: Seaworf 1-	12 CTB I		Date: 571	2/22			page lot	
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
3-0100'	1142	5.34	33.3	2.5	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock	Dry Moist Wet	Pad material to ~ 2' Augur refusal on Calu
3-01@1'	1145	1,55	32.2	1.1	Light Dark Tan Brown Gray Olive Yellow Red	Sand Silt	Dry Moist Wet	1
8-01@2'	1150	2.19	31.0	2.3	Light Dark Tan Brow Gray Olive Yellow Red	n Sand Silt	Dry Moist Wet	
3-0200'	1208	3,70	32.5	2.1	Light Darl Tan Brow Gray Olive Yellow Red	n Sand Silt	Dry Moist Wet	Pad material to -2'
5-0201'	1210	0.11	32.8	1,1	Light Dar Tan Brow Gray Olive Yellow Red	Sand Silt	Dry Moist Wet	
8-02@2'	1224	0.11	31.3	0.6	Light Dar Tan Brov Gray Oliv Yellow Red	Sand Silt	Dry Moist Wet	
3-0300'	1236	5.16	35.2	1.4	Light Dar Tan Brov Gray Oliv Yellow Red	e Clav	Dry Moist Wet	Pad matural to ~1"
B-03@1'	1254	0.71	35.0	0.8	Light Day Tan Brow Gray Oliv Yellow Rec	e Clav	Dry Moist Wet	
B-03@1.5'	1308	0.17	34.1	0,6	Tan Brow Gray Oliv Yellow Red	sand Silt	Dry Moist Wet	

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Location Name: SLAWOIF 1-12 CTB 1					12/202	2		page 20F.
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
3B-04 00'	1315	0.23	32.8	0.7	Light Dark Tan Brow Gray Olive Yellow Red	Sand Silt	Dry Moist Wet	1
SB-05 CO'	1322	0.19	35.9	0.7	Light Dark Tan Brow Gray Olive Yellow Red	Sand Silt	Dry Moist Wet	1
3B-0600'	1331	0.43	35.6	0.8	Light Darl Tan Brow Gray Olive Yellow Red	n Sand Silt	Dry Moist Wet	
5B-06@1	1344	0.09	34,8	0.4	Light Dar Tan Brow Gray Olive Yellow Red	n Sand Silt	Dry Moist Wet	
SB-07@0'	1409	0.12	36.2	0.6	Light Dar Tan Brow Gray Olive Yellow Red	Sand Silt	Dry Moist Wet	
5B-08@0'	1412	0.23	34.7	0,6	Light Dar Tan Brow Gray Oliv Yellow Red	Sand Silt	Dry Moist Wet	
58-09@0'	1418	8.53	34.2	0,5	Light Dau Tan Brov Gray Oliv Yellow Red	e Gravel Rock Sand Silt	Dry Moist Wet	
5B-09@11	1431	0.70	33.7	1,2	Light Da Tan Brow Gray Oliv Yellow Rec	e Clav	Dry Moist Wet	Pad moterial to 1+
SB-10 20'	1440	1.28	33.7	0.7	tight Da Tan Brow Gray Oliv Yellow Red	e Clav	Dry Moist Wet	

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tion Name: Seawolf 1-	12 CTB 1.			Date: 5/	12/20	22			page 3 of 3
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Colo	r	Primary Soil Type	Moisture Level	Other Remarks/Notes:
5B-10@1		0.11	34.5		Tan B Gray C	Dark rown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
B-1100'	1457	0.06	33.1	0.6	Tan B Gray (Yellow I	Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	I
B-1200'	1505	0.23	32.8	0,2	Tan B Gray O Yellow	Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SB-1300'	1511	6.11	32.9	6.5	Tan E Gray Yellow	Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
5B-1420'	1519	0.11	33.5	0.4		Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	Graden and Constant
						Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Tan	Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
			· · ·		Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Kock	Dry Moist Wet	

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ion Name: Seawolf 1-12	QCTB 1			Date: 8/22/22						
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:		
Base	0851	0.22	22.8		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock	Dry Moist Wet			
Wall	0957	0.14	22.6		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock	Dry Moist Wet			
BH-Neo'	5260			0.0	Light Dark Tan Brown Gray Olive Yellow Red	Grave Rock	Dry Moist Wet			
BH-N@0.5'	0927			0.0	Light Dark Tan Brown Gray Olive Yellow Red	Grave Rock	Dry Moist Wet			
BH - Outside @ O'	0934			6.0	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock	Dry Moist Wet			
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock	Dry Moist Wet			
					Light Dark Tan Browr Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet			
				-	Light Dark Tan Browr Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet			
					Light Dark Tan Browr Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet			

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Photograph Log Seawolf 1-12 CTB 1 Devon Energy Production Company



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Photograph Log Seawolf 1-12 CTB 1 Devon Energy Production Company







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APPENDIX D SAMPLING PROTOCOL



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Analytical Laboratory in Farmington, New Mexico for analysis. Samples were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site field screening and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX E

LABORATORY ANALYTICAL REPORTS





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:

Seawolf 1-12 CTB 1

Work Order: E205070

Job Number: 01058-0007

Received: 5/16/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/20/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 5/20/22

Ashley Maxwell 201 S Halagueno St. Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1 Workorder: E205070 Date Received: 5/16/2022 8:30:00AM

Ashley Maxwell,

22 8:30:00AM

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2022 8:30:00AM, under the Project Name: Seawolf 1-12 CTB 1.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mary		
Souder Miller Associates - Carlsbad		Project Name:	Seawolf 1-12 CTB	1	Reported:
201 S Halagueno St.		Project Number:	01058-0007		-
Carlsbad NM, 88220		Project Manager:	Ashley Maxwell		05/20/22 14:44
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB-01 @ 0'	E205070-01A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-01 @ 1'	E205070-02A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-01 @ 2'	E205070-03A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-02 @ 0'	E205070-04A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-02 @ 1'	E205070-05A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-02 @ 2'	E205070-06A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-03 @ 0'	E205070-07A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-03 @ 1'	E205070-08A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-03 @ 1.5'	E205070-09A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-04 @ 0'	E205070-10A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-05 @ 0'	E205070-11A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-06 @ 0'	E205070-12A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-06 @ 1'	E205070-13A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-07 @ 0'	E205070-14A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-08 @ 0'	E205070-15A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-09 @ 0'	E205070-16A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-09 @ 1'	E205070-17A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-10 @ 0'	E205070-18A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-10 @ 1'	E205070-19A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-11 @ 0'	E205070-20A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-12 @ 0'	E205070-21A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-13 @ 0'	E205070-22A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.
SB-14 A 0'	E205070-23A	Soil	05/12/22	05/16/22	Glass Jar, 4 oz.



		ampic D	utu			
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	volf 1-12 CTB 1 58-0007 ley Maxwell			Reported: 5/20/2022 2:44:13PM
		SB-01 @ 0'				
		E205070-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/19/22	
thylbenzene	ND	0.0250	1	05/16/22	05/19/22	
oluene	ND	0.0250	1	05/16/22	05/19/22	
-Xylene	ND	0.0250	1	05/16/22	05/19/22	
,m-Xylene	ND	0.0500	1	05/16/22	05/19/22	
otal Xylenes	ND	0.0250	1	05/16/22	05/19/22	
urrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	05/16/22	05/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/19/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	05/16/22	05/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	32.4	25.0	1	05/17/22	05/17/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
urrogate: n-Nonane		133 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	11500	400	20	05/17/22	05/18/22	



	5	ampie D	ala			
Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name: Project Numb		wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-01 @ 1'				
		E205070-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2221007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	ıt: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		121 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	2420	40.0	2	05/17/22	05/18/22	



	D	ampic D	ata			
Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name: Project Numb	er: 010:	wolf 1-12 CTB 1 58-0007			Reported: 5/20/2022 2:44:13PM
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-01 @ 2'				
		E205070-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/19/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/19/22	
Toluene	ND	0.0250	1	05/16/22	05/19/22	
p-Xylene	ND	0.0250	1	05/16/22	05/19/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/19/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/19/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	05/16/22	05/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/19/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	05/16/22	05/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		122 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2221014
Chloride	395	40.0	2	05/17/22	05/18/22	



		impic D				
Souder Miller Associates - Carlsbad	Project Name:		volf 1-12 CTB 1			
201 S Halagueno St.	Project Numbe		58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ley Maxwell			5/20/2022 2:44:13PM
	5	5B-02 @ 0'				
]	E205070-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2221007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		117 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2221014
Chloride	14700	400	20	05/17/22	05/19/22	

	5	ampic D	ala			
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 010	wolf 1-12 CTB 1 58-0007 ley Maxwell			Reported: 5/20/2022 2:44:13PM
		SB-02 @ 1'				
		E205070-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
o-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Batch: 2221007		
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		119 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	50.0	20.0	1	05/17/22	05/18/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	wolf 1-12 CTB 58-0007 ley Maxwell	1		Reported: 5/20/2022 2:44:13PM
		SB-02 @ 2'				
		E205070-06				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Foluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		123 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2221014
Chloride	46.7	20.0	1	05/17/22	05/18/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	wolf 1-12 CTB 1 58-0007 ley Maxwell			Reported: 5/20/2022 2:44:13PM
,	, ,	SB-03 @ 0'	,			
		E205070-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		125 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2221014
Chloride	12100	400	20	05/17/22	05/18/22	

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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010	wolf 1-12 CTB 1 58-0007 ley Maxwell			Reported: 5/20/2022 2:44:13PM
		SB-03 @ 1'				
		E205070-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22	
Surrogate: n-Nonane		125 %	50-200	05/17/22	05/17/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	1710	40.0	2	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad	Project Name	: Seav	wolf 1-12 CTB 1				
201 S Halagueno St.	Project Numb	oer: 010	58-0007			Reported: 5/20/2022 2:44:13PM	
Carlsbad NM, 88220	88220 Project Manager: Ashley Maxwell						
	5	SB-03 @ 1.5'					
		E205070-09					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007	
Benzene	ND	0.0250	1	05/16/22	05/20/22		
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22		
Toluene	ND	0.0250	1	05/16/22	05/20/22		
p-Xylene	ND	0.0250	1	05/16/22	05/20/22		
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22		
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22		
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/16/22	05/20/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2221007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	05/16/22	05/20/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016			
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/17/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/17/22		
Surrogate: n-Nonane		122 %	50-200	05/17/22	05/17/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014	
Chloride	172	20.0	1	05/17/22	05/19/22		



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Souder Miller Associates - Carlsbad	Project Name	e: Seav	wolf 1-12 CTB 1			
201 S Halagueno St.	Project Numb	Reported:				
Carlsbad NM, 88220	Project Mana	5/20/2022 2:44:13PM				
		SB-04 @ 0'				
		E205070-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Foluene	ND	0.0250	1	05/16/22	05/20/22	
o-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys		Batch: 2221007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		126 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: RAS		Batch: 2221014
Chloride	254	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	wolf 1-12 CTB 1			
201 S Halagueno St.	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-05 @ 0'				
		E205070-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	/kg Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		118 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2221014
Chloride	188	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name Project Numb		wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-06 @ 0'				
		E205070-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	/kg Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		124 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2221014
Chloride	524	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name: Project Numb		wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-06 @ 1'				
		E205070-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Foluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		134 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2221014
Chloride	21.5	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name Project Numb Project Manag	er: 0103	volf 1-12 CTB 1 58-0007 ley Maxwell			<b>Reported:</b> 5/20/2022 2:44:13PM
		SB-07 @ 0'				
		E205070-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		134 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2221014
Chloride	110	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name Project Numb Project Manag	ber: 010	volf 1-12 CTB 1 58-0007 ley Maxwell			<b>Reported:</b> 5/20/2022 2:44:13PM
		SB-08 @ 0'				
		E205070-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	'kg Analyst: RKS			Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2221016		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		120 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	214	20.0	1	05/17/22	05/19/22	


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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	wolf 1-12 CTB 1 58-0007			<b>Reported:</b> 5/20/2022 2:44:13PM
Carisbad Nivi, 88220	Project Manag	ger: Asn	ley Maxwell			5/20/2022 2.44.15FW
		SB-09 @ 0'				
		E205070-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Foluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		120 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2221014
Chloride	17200	1000	50	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	wolf 1-12 CTB	l		
201 S Halagueno St.	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-09 @ 1'				
		E205070-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		123 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2221014
Chloride	1320	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name: Project Numbe		wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Manag		ley Maxwell		5/20/2022 2:44:13PM	
		SB-10 @ 0'				
		E205070-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		106 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2221014
Chloride	1490	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad	Project Name		wolf 1-12 CTB 1			
201 S Halagueno St.	Project Numb		58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-10 @ 1'				
		E205070-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		126 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2221014
Chloride	27.1	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad	Project Name	: Seav	wolf 1-12 CTB	1		
201 S Halagueno St.	Project Numb	oer: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-11 @ 0'				
		E205070-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2221007
Benzene	ND	0.0250	1	05/16/22	05/20/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/20/22	
Toluene	ND	0.0250	1	05/16/22	05/20/22	
p-Xylene	ND	0.0250	1	05/16/22	05/20/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/20/22	
Total Xylenes	ND	0.0250	1	05/16/22	05/20/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2221007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	05/16/22	05/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2221016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		118 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2221014
Chloride	ND	20.0	1	05/17/22	05/19/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name Project Numb	oer: 010	wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-12 @ 0'				
		E205070-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2221006
Benzene	ND	0.0250	1	05/16/22	05/17/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/17/22	
Toluene	ND	0.0250	1	05/16/22	05/17/22	
p-Xylene	ND	0.0250	1	05/16/22	05/17/22	
o,m-Xylene	ND	0.0500	1	05/16/22	05/17/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/17/22	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	05/16/22	05/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2221006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	05/16/22	05/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2221017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		110 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2221013
Chloride	50.7	20.0	1	05/17/22	05/18/22	



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Souder Miller Associates - Carlsbad	Project Name:		wolf 1-12 CTB 1			
201 S Halagueno St.	Project Numb		58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			5/20/2022 2:44:13PM
		SB-13 @ 0'				
		E205070-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2221006
Benzene	ND	0.0250	1	05/16/22	05/17/22	
Ethylbenzene	ND	0.0250	1	05/16/22	05/17/22	
Foluene	ND	0.0250	1	05/16/22	05/17/22	
p-Xylene	ND	0.0250	1	05/16/22	05/17/22	
p,m-Xylene	ND	0.0500	1	05/16/22	05/17/22	
Fotal Xylenes	ND	0.0250	1	05/16/22	05/17/22	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	05/16/22	05/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2221006
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/16/22	05/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2221017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22	
Surrogate: n-Nonane		130 %	50-200	05/17/22	05/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2221013
Chloride	217	20.0	1	05/17/22	05/18/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name Project Numl		wolf 1-12 CTB 58-0007	1		Reported:					
Carlsbad NM, 88220	Carlsbad NM, 88220 Project Manager: Ashley Maxwell										
		SB-14 A 0'									
		E205070-23									
		Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes					
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2221006					
Benzene	ND	0.0250	1	05/16/22	05/17/22						
Ethylbenzene	ND	0.0250	1	05/16/22	05/17/22						
<b>`</b> oluene	ND	0.0250	1	05/16/22	05/17/22						
-Xylene	ND	0.0250	1	05/16/22	05/17/22						
o,m-Xylene	ND	0.0500	1	05/16/22	05/17/22						
Total Xylenes	ND	0.0250	1	05/16/22	05/17/22						
urrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	05/16/22	05/17/22						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2221006					
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/22	05/17/22						
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	05/16/22	05/17/22						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2221017					
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/22	05/18/22						
Dil Range Organics (C28-C36)	ND	50.0	1	05/17/22	05/18/22						
Surrogate: n-Nonane		124 %	50-200	05/17/22	05/18/22						
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2221013					
Chloride	80.9	20.0	1	05/17/22	05/18/22						



# QC Summary Data

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Souder Miller Associates - Carlsbad 201 S Halagueno St.		Project Name: Project Number:		eawolf 1-12 C 1058-0007	TB 1				Reported:
Carlsbad NM, 88220		Project Manager:		shley Maxwel	11				5/20/2022 2:44:13PM
		Volatile O	rganics l	by EPA 802	21B				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 (2221006-BLK1)							Prepared: 0	5/16/22 A	nalyzed: 05/17/22
Benzene	ND	0.0250					1		•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			
LCS (2221006-BS1)			Prepared: 05				5/16/22 A	nalyzed: 05/17/22	
Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.90	0.0250	5.00		98.0	70-130			
p-Xylene	4.80	0.0250	5.00		96.0	70-130			
o,m-Xylene	9.55	0.0500	10.0		95.5	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			
Matrix Spike (2221006-MS1)				Source:	E205068-	01	Prepared: 0	5/16/22 A	nalyzed: 05/17/22
Benzene	4.90	0.0250	5.00	ND	98.0	54-133			
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133			
Toluene	4.69	0.0250	5.00	ND	93.8	61-130			
o-Xylene	4.62	0.0250	5.00	ND	92.4	63-131			
o,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	91.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			
Matrix Spike Dup (2221006-MSD1)				Source:	E205068-	01	Prepared: 0	5/16/22 A	nalyzed: 05/17/22
Benzene	5.24	0.0250	5.00	ND	105	54-133	6.76	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	6.42	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	6.73	20	
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131	6.35	20	
o,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	6.34	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131	6.34	20	



# QC Summary Data

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Souder Miller Associates - Carlsbad 201 S Halagueno St.		Project Name: Project Number:		eawolf 1-12 C 1058-0007	TB 1				Reported:
Carlsbad NM, 88220		Project Manager:	А	shley Maxwel	1				5/20/2022 2:44:13PM
		Volatile O	rganics	by EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2221007-BLK1)							Prepared: 0	5/16/22 A	nalyzed: 05/19/22
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			
LCS (2221007-BS1)			Prepared: (				5/16/22 A	nalyzed: 05/19/22	
Benzene	5.00	0.0250	5.00		100	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.6	70-130			
Toluene	4.78	0.0250	5.00		95.7	70-130			
o-Xylene	4.69	0.0250	5.00		93.7	70-130			
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			
Matrix Spike (2221007-MS1)				Source:	E205070-	03	Prepared: 0	5/16/22 A	nalyzed: 05/19/22
Benzene	5.66	0.0250	5.00	ND	113	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
p-Xylene	5.31	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			
Matrix Spike Dup (2221007-MSD1)				Source:	E205070-	03	Prepared: 0	5/16/22 A	nalyzed: 05/19/22
Benzene	5.45	0.0250	5.00	ND	109	54-133	3.94	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.7	61-133	3.79	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	3.78	20	
p-Xylene	5.12	0.0250	5.00	ND	102	63-131	3.72	20	
			10.0	ND	100	(2,121	3.83	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	5.65	20	
p,m-Xylene Total Xylenes	10.2 15.3	0.0500 0.0250	10.0	ND ND	102	63-131	3.80	20	



## **QC Summary Data**

		QC D	umm	ary Data	a				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	eawolf 1-12 C 1058-0007 Ashley Maxwel					<b>Reported:</b> 5/20/2022 2:44:13PM
Calisoau INN, 66220	No	nhalogenated (		2		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 (2221006-BLK1)							Prepared: 0	5/16/22 A	analyzed: 05/17/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			
LCS (2221006-BS2)							Prepared: 0	5/16/22 A	analyzed: 05/17/22
Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			
Matrix Spike (2221006-MS2)				Source:	E205068-	01	Prepared: 0	5/16/22 A	analyzed: 05/17/22
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			
Matrix Spike Dup (2221006-MSD2)				Source:	E205068-	01	Prepared: 0	5/16/22 A	analyzed: 05/17/22
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	4.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

## **QC Summary Data**

		QC D	umm	ary Data	u				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	eawolf 1-12 C 1058-0007 Ashley Maxwel					<b>Reported:</b> 5/20/2022 2:44:13PM
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS
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 (2221007-BLK1)							Prepared: 0	5/16/22 A	analyzed: 05/19/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			
LCS (2221007-BS2)							Prepared: 0	5/16/22 A	analyzed: 05/19/22
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike (2221007-MS2)				Source:	E205070-	03	Prepared: 0	5/16/22 A	analyzed: 05/19/22
Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2221007-MSD2)				Source:	E205070-	03	Prepared: 0	5/16/22 A	analyzed: 05/19/22
Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130	1.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

## **QC Summary Data**

		QC D	u 111111	ary Data	4				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(	Seawolf 1-12 CT 01058-0007 Ashley Maxwell					<b>Reported:</b> 5/20/2022 2:44:13PM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2221016-BLK1)							Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			
LCS (2221016-BS1)							Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	512	25.0	500		102	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			
Matrix Spike (2221016-MS1)				Source: 1	E205070-	06	Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	363	25.0	500	ND	72.6	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			
Matrix Spike Dup (2221016-MSD1)				Source: 1	E205070-	06	Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	478	25.0	500	ND	95.5	38-132	27.2	20	R3
Surrogate: n-Nonane	53.1		50.0		106	50-200			



## **QC Summary Data**

		QC DI		aly Data	•				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(	Seawolf 1-12 CT 01058-0007 Ashley Maxwell	В1				<b>Reported:</b> 5/20/2022 2:44:13PM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2221017-BLK1)							Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	60.4		50.0		121	50-200			
LCS (2221017-BS1)							Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	411	25.0	500		82.1	38-132			
Surrogate: n-Nonane	62.3		50.0		125	50-200			
Matrix Spike (2221017-MS1)				Source: <b>F</b>	205071-	01	Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	499	25.0	500	ND	99.8	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			
Matrix Spike Dup (2221017-MSD1)				Source: F	205071-	01	Prepared: 0	5/17/22 A	analyzed: 05/17/22
Diesel Range Organics (C10-C28)	507	25.0	500	ND	101	38-132	1.55	20	
Surrogate: n-Nonane	59.2		50.0		118	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$	••••••	, <u> </u>					
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(	Seawolf 1-12 C 01058-0007 Ashley Maxwel					<b>Reported:</b> 5/20/2022 2:44:13PM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2221013-BLK1)							Prepared: 0	5/17/22	Analyzed: 05/19/22
Chloride	ND	20.0							
LCS (2221013-BS1)							Prepared: 0	5/17/22	Analyzed: 05/19/22
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2221013-MS1)				Source:	E205068-0	01	Prepared: 0	5/17/22	Analyzed: 05/18/22
Chloride	249	20.0	250	ND	99.4	80-120			
Matrix Spike Dup (2221013-MSD1)				Source:	E205068-0	01	Prepared: 0	5/17/22	Analyzed: 05/18/22
Chloride	251	20.0	250	ND	100	80-120	0.870	20	



## **QC Summary Data**

1			Reported:
			5/20/2022 2:44:13PM
			Analyst: RAS
Rec Lin		RPD Limit	
% %	<i>6</i> %	%	Notes
	Prepared: 05	5/17/22 A	analyzed: 05/18/22
	Prepared: 05	5/17/22 A	nalyzed: 05/18/22
97.6 90-1	110		
	Prepared: 05	5/17/22 A	nalyzed: 05/18/22
077 00 1	0.0737	20	
		97.6 90-110 Prepared: 0:	Prepared: 05/17/22 A

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.



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Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	05/20/22 14:44

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- Note (1): Methods marked with ** are non-accredited methods.

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



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Project Int	formation
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### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Souder Miller Associates - Carlsbad D	ate Received:	05/16/22 08	8:30	Work Order ID:	E205070
Phone:	(505) 325-7535 D	ate Logged In:	05/16/22 0	9:00	Logged In By:	Caitlin Christian
Email:		ue Date:	05/20/22 1	7:00 (4 day TAT)		
Chain o	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courrier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	Turn Around Time (TAT)					
	the COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	· •					
	a sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
	es, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e		Yes			
13 Ifn	Note: Thermal preservation is not required, if samples are re minutes of sampling o visible ice, record the temperature. Actual sample ter		2C			
		претаture. <u>+</u>	<u>c</u>			
	<u>Container</u> aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		No NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		No			
	<u>Preservation</u>	om co d O	NT -			
	s the COC or field labels indicate the samples were prese	ervea?	No Na			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ale?	NA No			
		41.5 i	110			
	nase Sample Matrix		••			
	s the sample have more than one phase, i.e., multiphase?		No			
	es, does the COC specify which phase(s) is to be analyze	ur	NA			
Subcon	tract Laboratory					
28. Are	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA	Subcontract Lab: na		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# Souder Miller Associates - Carlsbad

**Project Name:** 

Seawolf 1-12 CTB 1

Work Order: E207171

Job Number: 01058-0007

Received: 7/25/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/27/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 7/27/22

Ashley Maxwell 201 S Halagueno St. Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1 Workorder: E207171 Date Received: 7/25/2022 3:54:00PM

Ashley Maxwell,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2022 3:54:00PM, under the Project Name: Seawolf 1-12 CTB 1.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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#### Sample Summarv

		Sample Sum	mary		
Souder Miller Associates - Carlsbad		Project Name:	Seawolf 1-12 CTB 1		Reported:
201 S Halagueno St.		Project Number:	01058-0007		Reported.
Carlsbad NM, 88220		Project Manager:	Ashley Maxwell		07/27/22 17:20
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS01	E207171-01A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS02	E207171-02A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS03	E207171-03A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS04	E207171-04A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS05	E207171-05A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS06	E207171-06A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
CS07	E207171-07A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
SW1	E207171-08A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
SW2	E207171-09A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
WW3	E207171-10A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.
W4	E207171-11A	Soil	07/22/22	07/25/22	Glass Jar, 4 oz.



		ampic D				
Souder Miller Associates - Carlsbad	Project Name		volf 1-12 CT	B 1		
201 S Halagueno St.	Project Numb		58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Ash	ley Maxwell			7/27/2022 5:20:30PM
		CS01				
		E207171-01				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
thylbenzene	ND	0.0250	1	07/26/22	07/26/22	
oluene	ND	0.0250	1	07/26/22	07/26/22	
-Xylene	ND	0.0250	1	07/26/22	07/26/22	
,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/26/22	07/26/22	
urrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2231025
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2231031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Dil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
urrogate: n-Nonane		105 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2231026
Chloride	164	20.0	1	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 CTB 1			
201 S Halagueno St.	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			7/27/2022 5:20:30PM
		CS02				
		E207171-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
p,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Fotal Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Batch: 2231025		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2231031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		112 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2231026
Chloride	1750	40.0	2	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad	Project Name:	: Seav	wolf 1-12 CTB 1			
201 S Halagueno St.	Project Numb	er: 010:	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			7/27/2022 5:20:30PM
		CS03				
		E207171-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Fotal Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Batch: 2231025		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2231031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		113 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2231026
Chloride	2060	40.0	2	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name Project Numb Project Manag	er: 010:	wolf 1-12 CTB 1 58-0007 ley Maxwell			<b>Reported:</b> 7/27/2022 5:20:30PM
		CS04	-			
		E207171-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
o-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Batch: 2231025		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2231031		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		111 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2231026
Chloride	666	20.0	1	07/26/22	07/26/22	

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Souder Miller Associates - Carlsbad	Project Name		wolf 1-12 CTB	1		
201 S Halagueno St.	Project Numb		58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			7/27/2022 5:20:30PM
		CS05				
		E207171-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Batch: 2231025		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2231031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		115 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2231026
Chloride	1270	20.0	1	07/26/22	07/26/22	



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·	er: 010:	58-0007			Reported:
Project Manag	er: Ash	ley Maxwell			7/27/2022 5:20:30PM
	CS06				
-	E207171-06				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: IY		Batch: 2231025
ND	0.0250	1	07/26/22	07/26/22	
ND	0.0250	1	07/26/22	07/26/22	
ND	0.0250	1	07/26/22	07/26/22	
ND	0.0250	1	07/26/22	07/26/22	
ND	0.0500	1	07/26/22	07/26/22	
ND	0.0250	1	07/26/22	07/26/22	
	99.7 %	70-130	07/26/22	07/26/22	
mg/kg	mg/kg	/kg Analyst: IY			Batch: 2231025
ND	20.0	1	07/26/22	07/26/22	
	93.8 %	70-130	07/26/22	07/26/22	
mg/kg	mg/kg	Analys	Batch: 2231031		
ND	25.0	1	07/26/22	07/26/22	
ND	50.0	1	07/26/22	07/26/22	
	115 %	50-200	07/26/22	07/26/22	
mg/kg	mg/kg	Analys	t: RAS		Batch: 2231026
	Project Name: Project Numbo Project Manag Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         Sear           Project Number:         0102           Project Manager:         Ash           Project Manager:         Ash           E207171-06         E207171-06           Result         Limit           mg/kg         mg/kg           Mg/kg         Mg/kg           ND         0.0250           ND         20.0           99.7 %         mg/kg           mg/kg         mg/kg           ND         20.0           ND         25.0           ND	Project Number: $01058-0007$ Ashley Maxwell         Project Manager: $CS06$ E207171-06         E207171-06         E207171-06         E207171-06         E207171-06         E207171-06         Result       Limit       Dilution         mg/kg       mg/kg       Analyst         ND       0.0250       1         MD       0.0250       1         MD       0.0250       1         MD       0.0250       1         MD       20.0       1         MD       20.0       1         MD       20.0       1         MD       25.0       1         MD       50.0       1         MD       50.200       1	I         Project Name:       Seawolf 1-12 CTB 1         Project Number:       01058-0007         Project Manager:       Ashley Maxwell         CS06         E207171-06         Result       Dilution       Prepared         MD       0.0250       1       07/26/22         ND       20.0       1       07/26/22         MD       20.0       1       07/26/22         MD       20.0       1       07/26/22         MD       25.0       1       07/26/22         ND       25.0       1       07/26/22         ND       25.0	Image: Seawolf 1-12 CTB 1         Project Number:       01058-0007         Project Manager:       Ashley Maxwell         CS06         E207171-06         Result       Limit       Dilution       Prepared       Analyzed         Mg/kg       mg/kg       Analyzed       07/26/22       07/26/22         ND       0.0250       1       07/26/22       07/26/22         ND       20.0       1       07/26/22       07/26/22         MD       20.0       1       07/26/22       07/26/22         MD       20.0



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Souder Miller Associates - Carlsbad 201 S Halagueno St.	Project Name Project Numb		wolf 1-12 CTB 1 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Maxwell			7/27/2022 5:20:30PM
		CS07				
		E207171-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
o-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Fotal Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	/kg Analyst: IY			Batch: 2231025
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2231031		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Dil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		115 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2231026
Chloride	323	20.0	1	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010	wolf 1-12 CTB 1 58-0007 ley Maxwell			<b>Reported:</b> 7/27/2022 5:20:30PM
		SW1				
	]	E207171-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
p,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		116 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231025
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		120 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2231031		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		115 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2231026
Chloride	1010	20.0	1	07/26/22	07/26/22	



	56	ample D	ala			
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	volf 1-12 CTB 1 58-0007 ley Maxwell			<b>Reported:</b> 7/27/2022 5:20:30PM
		SW2				
		E207171-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Fotal Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		119 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	cg Analyst: IY			Batch: 2231025
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		119 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2231031		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Dil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		99.9 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2231026
Chloride	208	20.0	1	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 CTB 1			
201 S Halagueno St.	Project Number	r: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ey Maxwell			7/27/2022 5:20:30PM
		SW3				
		E207171-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Fotal Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		120 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	Batch: 2231025		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		120 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	Batch: 2231031		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Dil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		108 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2231026
Chloride	531	20.0	1	07/26/22	07/26/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 CTB 1			
201 S Halagueno St.	Project Number	r: 010:	01058-0007 Ashley Maxwell			<b>Reported:</b> 7/27/2022 5:20:30PM
Carlsbad NM, 88220	Project Manage	er: Ash				
		SW4				
	I	E <b>207171-11</b>				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231025
Benzene	ND	0.0250	1	07/26/22	07/26/22	
Ethylbenzene	ND	0.0250	1	07/26/22	07/26/22	
Toluene	ND	0.0250	1	07/26/22	07/26/22	
p-Xylene	ND	0.0250	1	07/26/22	07/26/22	
o,m-Xylene	ND	0.0500	1	07/26/22	07/26/22	
Total Xylenes	ND	0.0250	1	07/26/22	07/26/22	
Surrogate: 4-Bromochlorobenzene-PID		120 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY			Batch: 2231025
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/22	07/26/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		121 %	70-130	07/26/22	07/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: JL			Batch: 2231031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/22	07/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/22	07/26/22	
Surrogate: n-Nonane		110 %	50-200	07/26/22	07/26/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231026
Chloride	969	20.0	1	07/26/22	07/26/22	


## **QC Summary Data**

		$\chi \circ \sim$		ing Date					
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	eawolf 1-12 C 1058-0007 shley Maxwel					<b>Reported:</b> 7/27/2022 5:20:30PM
	Volatile Organics by EPA 8021B								Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2231025-BLK1)							Prepared: 0	7/26/22 A	Analyzed: 07/26/22
Benzene	ND	0.0250							•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			
LCS (2231025-BS1)							Prepared: 0	7/26/22 A	Analyzed: 07/26/22
Benzene	4.61	0.0250	5.00		92.1	70-130			
Ethylbenzene	3.99	0.0250	5.00		79.8	70-130			
Toluene	4.32	0.0250	5.00		86.4	70-130			
p-Xylene	4.29	0.0250	5.00		85.8	70-130			
o,m-Xylene	8.25	0.0500	10.0		82.5	70-130			
Total Xylenes	12.5	0.0250	15.0		83.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.33		8.00		104	70-130			
LCS Dup (2231025-BSD1)							Prepared: 0	7/26/22 A	Analyzed: 07/26/22
Benzene	4.64	0.0250	5.00		92.8	70-130	0.754	20	
Ethylbenzene	4.02	0.0250	5.00		80.3	70-130	0.653	20	
Toluene	4.36	0.0250	5.00		87.2	70-130	0.832	20	
p-Xylene	4.33	0.0250	5.00		86.7	70-130	0.956	20	
o,m-Xylene	8.30	0.0500	10.0		83.0	70-130	0.563	20	
Total Xylenes	12.6	0.0250	15.0		84.2	70-130	0.698	20	
Surrogate: 4-Bromochlorobenzene-PID	8.34		8.00		104	70-130			



## **QC Summary Data**

		QU N	/umm	ary Duc	4				
Souder Miller Associates - Carlsbad 201 S Halagueno St.		Project Name: Project Number		Seawolf 1-12 C 01058-0007	TB 1				Reported:
Carlsbad NM, 88220		Project Manager	r:	Ashley Maxwel	1				7/27/2022 5:20:30PM
	No	onhalogenated	Organic	s by EPA 80	15D - G	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 (2231025-BLK1)							Prepared: 0	7/26/22 A	nalyzed: 07/26/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2231025-BS2)							Prepared: 0	7/26/22 A	nalyzed: 07/26/22
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			
LCS Dup (2231025-BSD2)							Prepared: 0	7/26/22 A	nalyzed: 07/26/22
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130	5.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



## **QC Summary Data**

		QC D		ary Data	4				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(	Seawolf 1-12 C 01058-0007 Ashley Maxwel					<b>Reported:</b> 7/27/2022 5:20:30PM
	Nonh	alogenated Org	anics by	y EPA 8015E	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2231031-BLK1)							Prepared: 0	7/26/22 A	Analyzed: 07/27/22
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			
LCS (2231031-BS1)							Prepared: 0	7/26/22 A	Analyzed: 07/27/22
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike (2231031-MS1)				Source:	E207171-	09	Prepared: 0	7/26/22 A	Analyzed: 07/27/22
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			
Matrix Spike Dup (2231031-MSD1)				Source:	E207171-	09	Prepared: 0	7/26/22 A	Analyzed: 07/27/22
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132	7.00	20	
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			



## **QC Summary Data**

		<b>C</b> - · · ·	-						
Souder Miller Associates - Carlsbad		Project Name:	5	Seawolf 1-12 C	TB 1				Reported:
201 S Halagueno St.		Project Number:	(	1058-0007					•
Carlsbad NM, 88220		Project Manager	: 4	Ashley Maxwel	1				7/27/2022 5:20:30PM
		Anions	by EPA	300.0/90564	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2231026-BLK1)							Prepared: 0	7/26/22	Analyzed: 07/26/22
Chloride	ND	20.0							
LCS (2231026-BS1)							Prepared: 0	7/26/22	Analyzed: 07/26/22
Chloride	242	20.0	250		96.8	90-110			
Matrix Spike (2231026-MS1)				Source:	E207171-0	)1	Prepared: 0	7/26/22	Analyzed: 07/26/22
Chloride	389	20.0	250	164	89.8	80-120			
Matrix Spike Dup (2231026-MSD1)				Source:	E207171-0	)1	Prepared: 0	7/26/22	Analyzed: 07/26/22
Chloride	414	20.0	250	164	99.9	80-120	6.31	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**

	2 •		
Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	07/27/22 17:20

ND	Analyte NOT DETECTED at or above the reporting limit
	· · · · · · · · · · · · · · · · · · ·

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project	Information

envirotech

Page 1 of 2

Dient:       THA       Bill To       Lab Use Only.       TAT       EPA Program         Project:       Second Use Dy:       Job Number       Job Numbe
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Project Market:       Market
Address: Do-1       Description       Address: Do-1       Rem       Address: Do-1       Rem       Address: Do-1       Description       Address: Do-1
Phone:       Image: Image
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
0722 7/22/22 SOIL 1 SWI 8
0922 7/22/22 SOIL 1 SWI
0924 7/22/22 SOIL 1 SW2
0926 7/22/2 SOIL 5W3 10 X
Additional Instructions: please email report to Sarahmay Schleg, Ashing Maxwell, + Hauther Woods Samples recurring thermal preservation aust be received on see the day they are a
(field sampler), attest to the validity she authenticity of this sample. Tam aware that tambering with an interaction and the second and the
Relinquished by: (Signature) 7/22/22 1652 Hullow 4/22/22 1652 Received on ice: (Y) N
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T2 T3
AVG Temp °C
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Sample Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hatardous samples will be return 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

Released to Imaging: 2/1/2023 10:45:55 AM

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Received by OCD: 1/10/2023 9:10:06 AM

Chain of Custody

Project Information

Released to Imaging: 2/1/2023 10:45:55 AM

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fime Date		No			Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		1	BGDOC - NM	86000-1X			Ren	narks
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durtionarins		Juase	email Tep	ort to Sarahman Schla, A.	They are	ara	Jen .	)	110	29:45	ies . euu	and then	10 p		n must bi	e received or	ice the day	they are	sampled:
(fie'd sampler), atte	t to the validity an	é authenticity c	of this sample. I am awa	re that tampering with or intentionally mislabelling the samp pied by: <u>Darah Mary</u>	Salala e					r ezen	ed pack	ed in ice a	tan avg	tempa	bove 3 b	ut less than i	j'C on sub	sequent d	la vs
		d may be groun		pied by: Secret and Privary	Date		Time	-		-					Lab	Jse On	ly		
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Sample Matrix: S -	Soil. Sd - Solid, S	ig - Sludge, A	- Aqueous, O - Other		Contair	ner ly	pe: g	- glas	of at th	a clian	t avaa	nse Th	- annu	ort for	the ar	alvsis of :	he sbovi	e sampi	es is app
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only to those sam	oles received by	the laboratory	y with this COC. The	liability of the laboratory is limited to the amount pai															

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#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Souder Miller Associates - Carlsbad	Date Received:	07/25/22 15:54	L .	Work Order ID:	E207171
Phone:	(505) 325-7535 E	Date Logged In:	07/25/22 16:03	i	Logged In By:	Alexa Michaels
Email:		Due Date:	07/26/22 17:00	0 (1 day TAT)		
Chain o	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Heather Woods		
4. Was t	he COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this discussion.		Yes		Comment	s/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes			
<u>Sample</u>	Cooler					
	a sample cooler received?		Yes			
8. If yes	s, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If nc	o visible ice, record the temperature. Actual sample te	mperature: 4°	С			
	Container	-	_			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
17 Wee	a trip blank (TB) included for VOC analyses?		NA			
1/. was			Vac			
	non-VOC samples collected in the correct containers?		Yes			
18. Are	e appropriate volume/weight or number of sample containers?	rs collected?	Yes			
18. Are	e appropriate volume/weight or number of sample container	rs collected?				
18. Are 19. Is the <u>Field La</u>	e appropriate volume/weight or number of sample container					
<ol> <li>18. Are</li> <li>19. Is the</li> <li>Field L:</li> <li>20. Were</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID?					
<ol> <li>18. Are</li> <li>19. Is the</li> <li>Field L:</li> <li>20. Were</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		Yes Yes Yes			
<ol> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		Yes			
<ul> <li>18. Are</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ul>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	nation:	Yes Yes Yes No			
<ul> <li>18. Are</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> <li>Sample</li> <li>21. Doe:</li> </ul>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pres	nation:	Yes Yes No No			
<ol> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Sample</li> <li>Doc:</li> <li>Are</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved?	nation: served?	Yes Yes No No NA			
<ol> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Sample</li> <li>Doce</li> <li>Are</li> <li>Are</li> <li>Is la</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved met	nation: served?	Yes Yes No No			
<ol> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Were</li> <li>Were</li> <li>Doce</li> <li>Doce</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved methase Sample Matrix	nation: served? tals?	Yes Yes No No NA No			
<ol> <li>Are</li> <li>Is the</li> <li>Field L:</li> <li>Were</li> <li>Were</li> <li>Sample</li> <li>Doc:</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> <li>Doc:</li> <li>Doc:</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved methase <u>hase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase	nation: served? tals? ?	Yes Yes No No NA No			
<ol> <li>Are</li> <li>Is the</li> <li>Field L:</li> <li>Were</li> <li>Were</li> <li>Were</li> <li>Doc:</li> <li>Doc:</li> <li>Are</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> <li>Doc:</li> <li>Type</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved methase hase Sample Matrix s the sample have more than one phase, i.e., multiphase es, does the COC specify which phase(s) is to be analyze	nation: served? tals? ?	Yes Yes No No NA No			
<ol> <li>Are</li> <li>Is the</li> <li>Field L:</li> <li>Were</li> <li>Were</li> <li>Were</li> <li>Doc:</li> <li>Doc:</li> <li>Are</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> <li>Doc:</li> <li>Ti yee</li> <li>Subcom</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved methase hase Sample Matrix s the sample have more than one phase, i.e., multiphase es, does the COC specify which phase(s) is to be analyzed tract Laboratory	nation: served? als? ? ed?	Yes Yes No No NA No No			
<ol> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Were</li> <li>Sample</li> <li>Owere</li> <li>Does</li> <li>Are</li> <li>Are</li> <li>Subcom</li> <li>Are</li> </ol>	e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved methase hase Sample Matrix s the sample have more than one phase, i.e., multiphase es, does the COC specify which phase(s) is to be analyze	nation: served? tals? ? ed? ?	Yes Yes No No NA No NA No	contract Lab: na		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

## Souder Miller Associates - Carlsbad

Project Name:

Seawolf 1-12 CTB 1

Work Order: E208048

Job Number: 01058-0007

Received: 8/9/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/9/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 8/9/22

Ashley Maxwell 201 S Halagueno St. Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1 Workorder: E208048 Date Received: 8/9/2022 10:16:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2022 10:16:00AM, under the Project Name: Seawolf 1-12 CTB 1.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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#### **Sample Summary**

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		Sample Sum	mai y		
Souder Miller Associates - Carlsbad		Project Name:	Seawolf 1-12 CTB 1		Reported:
201 S Halagueno St.		Project Number:	01058-0007		Reporteu.
Carlsbad NM, 88220		Project Manager:	Ashley Maxwell		08/09/22 17:06
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS08	E208048-01A	Soil	08/04/22	08/09/22	Glass Jar, 4 oz.
CS09	E208048-02A	Soil	08/04/22	08/09/22	Glass Jar, 4 oz.
SW5	E208048-03A	Soil	08/04/22	08/09/22	Glass Jar, 4 oz.
SW6	E208048-04A	Soil	08/04/22	08/09/22	Glass Jar, 4 oz.



	~	impic D					
Souder Miller Associates - Carlsbad	Project Name:		volf 1-12 C	TB 1			
201 S Halagueno St.	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Maxwel	1			8/9/2022 5:06:35PM
		CS08					
		E208048-01					
		Reporting					
Analyte	Result	Limit	Dilut	tion I	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2233029
Benzene	ND	0.0250	1	(	08/09/22	08/09/22	
Ethylbenzene	ND	0.0250	1	(	08/09/22	08/09/22	
Toluene	ND	0.0250	1	(	08/09/22	08/09/22	
p-Xylene	ND	0.0250	1	. (	08/09/22	08/09/22	
o,m-Xylene	ND	0.0500	1	. (	08/09/22	08/09/22	
Total Xylenes	ND	0.0250	1	. (	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.8 %	70-130	(	08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	(	08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	(	08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2233029
Gasoline Range Organics (C6-C10)	ND	20.0	1	. (	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.8 %	70-130	(	08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	(	08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	(	08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2233028
Diesel Range Organics (C10-C28)	ND	25.0	1	(	08/09/22	08/09/22	
Dil Range Organics (C28-C36)	ND	50.0	1	. (	08/09/22	08/09/22	
Surrogate: n-Nonane		67.8 %	50-200	(	08/09/22	08/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS	5		Batch: 2233004
Chloride	222	20.0	1	. (	08/08/22	08/09/22	





		ampie D					
Souder Miller Associates - Carlsbad	Project Name:		volf 1-12 C 58-0007	TB 1			Dementede
201 S Halagueno St. Carlsbad NM, 88220	Project Numbe Project Manag		ley Maxwel	11			<b>Reported:</b> 8/9/2022 5:06:35PM
Curisour 144, 00220	i roject Manag						
		CS09					
		E208048-02					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2233029
Benzene	ND	0.0250	1	1	08/09/22	08/09/22	
Ethylbenzene	ND	0.0250	1	1	08/09/22	08/09/22	
Toluene	ND	0.0250	1	1	08/09/22	08/09/22	
p-Xylene	ND	0.0250	1	1	08/09/22	08/09/22	
o,m-Xylene	ND	0.0500	1	1	08/09/22	08/09/22	
Total Xylenes	ND	0.0250	1	1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.4 %	70-130		08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: P	Y		Batch: 2233029
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.4 %	70-130		08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JI	L		Batch: 2233028
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/22	08/09/22	
Dil Range Organics (C28-C36)	ND	50.0	1	1	08/09/22	08/09/22	
Surrogate: n-Nonane		67.3 %	50-200		08/09/22	08/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2233004
Chloride	455	20.0	1	1	08/08/22	08/09/22	



	56	ample Da	ata				
Souder Miller Associates - Carlsbad	Project Name:		volf 1-12 C	CTB 1			
201 S Halagueno St.	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Ashl	ey Maxwe	-11			8/9/2022 5:06:35PM
		SW5					
		E208048-03					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2233029
Benzene	ND	0.0250		1	08/09/22	08/09/22	
Ethylbenzene	ND	0.0250		1	08/09/22	08/09/22	
Toluene	ND	0.0250		1	08/09/22	08/09/22	
p-Xylene	ND	0.0250		1	08/09/22	08/09/22	
o,m-Xylene	ND	0.0500		1	08/09/22	08/09/22	
Fotal Xylenes	ND	0.0250		1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2233029
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/09/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2233028
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/22	08/09/22	
Dil Range Organics (C28-C36)	ND	50.0		1	08/09/22	08/09/22	
Surrogate: n-Nonane		63.5 %	50-200		08/09/22	08/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2233004
Chloride	68.7	20.0		1	08/08/22	08/09/22	



		ample D	uu				
Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 C	TB 1			
201 S Halagueno St.	Project Number		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ey Maxwe	11			8/9/2022 5:06:35PM
		SW6					
		E208048-04					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	Y		Batch: 2233029
Benzene	ND	0.0250		1	08/09/22	08/09/22	
Ethylbenzene	ND	0.0250		1	08/09/22	08/09/22	
Toluene	ND	0.0250		1	08/09/22	08/09/22	
o-Xylene	ND	0.0250		1	08/09/22	08/09/22	
o,m-Xylene	ND	0.0500		1	08/09/22	08/09/22	
Total Xylenes	ND	0.0250		1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/09/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		08/09/22	08/09/22	
Surrogate: Toluene-d8		103 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	Y		Batch: 2233029
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/22	08/09/22	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/09/22	08/09/22	
urrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		08/09/22	08/09/22	
urrogate: Toluene-d8		103 %	70-130		08/09/22	08/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	ſL		Batch: 2233028
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/22	08/09/22	
Dil Range Organics (C28-C36)	ND	50.0		1	08/09/22	08/09/22	
Surrogate: n-Nonane		65.0 %	50-200		08/09/22	08/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	RAS		Batch: 2233004
Chloride	ND	20.0		1	08/08/22	08/09/22	



## QC Summary Data

		QU N		ing Dutt	•				
Souder Miller Associates - Carlsbad		Project Name:	Se	eawolf 1-12 C	ГВ 1				Reported:
201 S Halagueno St.		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager:	As	shley Maxwell	1			8	8/9/2022 5:06:35PM
	١	olatile Organic	Compo	unds by EP	A 8260	B			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 (2233029-BLK1)						Р	repared: 08	8/09/22 Ana	alyzed: 08/09/22
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
LCS (2233029-BS1)						Р	repared: 08	8/09/22 Ana	alyzed: 08/09/22
Benzene	2.22	0.0250	2.50		88.9	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.36	0.0250	2.50		94.2	70-130			
o,m-Xylene	4.66	0.0500	5.00		93.1	70-130			
Total Xylenes	7.01	0.0250	7.50		93.5	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
LCS Dup (2233029-BSD1)						Р	repared: 08	8/09/22 Ana	alyzed: 08/09/22
Benzene	2.47	0.0250	2.50		98.7	70-130	10.4	23	
Ethylbenzene	2.60	0.0250	2.50		104	70-130	14.0	27	
Toluene	2.48	0.0250	2.50		99.2	70-130	13.9	24	
p-Xylene	2.69	0.0250	2.50		108	70-130	13.3	27	
p,m-Xylene	5.36	0.0500	5.00		107	70-130	14.0	27	
Total Xylenes	8.05	0.0250	7.50		107	70-130	13.8	27	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
surrogute. Bromojtuorobenzene									
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			



## **QC Summary Data**

				ary Date					
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	eawolf 1-12 C 1058-0007 Ashley Maxwel					<b>Reported:</b> 8/9/2022 5:06:35PM
	No	onhalogenated O		2		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 (2233029-BLK1)							Prepared: 0	8/09/22 A	nalyzed: 08/09/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
LCS (2233029-BS2)							Prepared: 0	8/09/22 A	nalyzed: 08/09/22
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
LCS Dup (2233029-BSD2)							Prepared: 0	8/09/22 A	nalyzed: 08/09/22
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130	5.86	20	
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			



## **QC Summary Data**

		QU D	u 111111	ary Date	•				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Seawolf 1-12 CT 01058-0007 Ashley Maxwell					<b>Reported:</b> 8/9/2022 5:06:35PM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2233028-BLK1)							Prepared: 0	8/09/22 A	Analyzed: 08/09/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.7		50.0		73.4	50-200			
LCS (2233028-BS1)							Prepared: 0	8/09/22 A	Analyzed: 08/09/22
Diesel Range Organics (C10-C28)	212	25.0	250		84.7	38-132			
Surrogate: n-Nonane	36.5		50.0		72.9	50-200			
Matrix Spike (2233028-MS1)				Source: 1	E208048-	04	Prepared: 0	8/09/22 A	Analyzed: 08/09/22
Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.5	38-132			
Surrogate: n-Nonane	32.6		50.0		65.3	50-200			
Matrix Spike Dup (2233028-MSD1)				Source: 1	E208048-	04	Prepared: 0	8/09/22 A	Analyzed: 08/09/22
Diesel Range Organics (C10-C28)	210	25.0	250	ND	84.0	38-132	0.511	20	
Surrogate: n-Nonane	29.8		50.0		59.6	50-200			

## **QC Summary Data**

				v					
Souder Miller Associates - Carlsbad		Project Name:	S	eawolf 1-12 C	TB 1				Reported:
201 S Halagueno St.		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager	: A	Ashley Maxwel	1				8/9/2022 5:06:35PM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2233004-BLK1)							Prepared: 0	8/08/22 A	Analyzed: 08/09/22
Chloride	ND	20.0							
LCS (2233004-BS1)							Prepared: 0	8/08/22 A	Analyzed: 08/09/22
hloride	248	20.0	250		99.2	90-110			
LCS Dup (2233004-BSD1)							Prepared: 0	8/08/22 A	Analyzed: 08/09/22
Chloride	249	20.0	250		99.5	90-110	0.283	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.



	2 children	5 unu 1 (oteb	
Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	08/09/22 17:06

ND Analyte NOT DETEC	CTED at or above the reporting limit
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NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



ient: Soude	~ Malor	0ASSOC.	ates		Bill To				L	ab U	se On	ly		T	AT	E	PA Progra	m
niect. SPALIN	51-17,1	CTRI		Atte	ntion: ARVON		La	b WC			Job	Jum	ber	1D	3D	RCRA	CWA	SDW
oject Manage	r: Ashung	Maxin	201	Addr			- P	EQ	0804	18	00	58.	10007					
Idress: ZQ	S Hal	aquen	0	1.0.75	State, Zip			н			Analy	sis ar	nd Metho	bd				ate
ty, State, Zip	(av 15 60	dy MA	1.83220	Phor			_										NM CO	UT
none:				Ema	il:		- 012	015		1							TYLOK	
mail:				1	10世 209873	SO	hv 8	o yu Bvd	021	60	10	00.0		Σ			TX OK	
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Time Date ampled Sample	Matrix	No Containers	Sample ID			Num		GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC -		Ren	narks
0920 8/412	2 5011	/	CS 08											X				
971 8/4/2	2 501	1	C509		²	2								X				
1923 8/4/2	22 5011	1	GARNON S.	W5		3				-				X				
0924 8/4/2	22 501	1	5006			4				1				X				
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dditional Inst	tructions: 0	10080	Send +	050	rehman Sc	hea As	hle		000	1211	100	08	+ 1	105	ba	12 10	lands	-
								1	low	A U							he day they are sa	
		1	ds for legal action. Samp		ng with or intentionally mislabelling	the sample location, dat	- Sr										n subsequent da	
elinquished by: (		Date	a / Time	aed by.	Received by: (Signature)	M Date	0	Tin	ne 1 1	10	17				ab U	se Only		
AN	a ///	1 8		700	- CONCORAN	1/1 5-	-8-	X	10'	0	Rec	eiver	d on ice		D N			
inguished by:	Signature)	Dat	P D D Time	citz	Received by (Signature)	1 Date	40	Tir	ne				10					
/ HA		K	- 400 -	+115	auth Ch	the 8/9	12	2 /1	0:10	0	T1			<u>T2</u>		2	<u>T3</u>	
alinquished by (	Signature)	Dat	e Time		Received by: (Signature)	Date		Tir	ne		AVG	Ter	np °C	4				
mole Matrix: S - S	oil. <b>Sd</b> - Solid. Se	- Sludge, A -	Agueous, <b>O</b> - Other _		L	Cont	iner Tv	vpe: e	- glass	5, p - c	_		, ag - an	nber gl	- ass, v -	VOA		
				other arrange	ments are made. Hazardous sa												bove samples	is appl
					laboratory is limited to the amo													

Chain of Custody

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Received by OCD: 1/10/2023 9:10:06 AM

# Page 130 of 164

Page of

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Souder Miller Associates - Carlsbad D	ate Received:	08/09/22	10:16	Work Order ID:	E208048
hone:	(505) 325-7535 D	ate Logged In:	08/08/22	11:19	Logged In By:	Alexa Michaels
Email:		ue Date:	08/09/22	17:00 (0 day TAT)		
Chain c	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: UPS		
4. Was t	the COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u>e Turn Around Time (TAT)</u>					
6. Did t	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	a sample cooler received?		Yes			
8. If yes	s, was cooler received in good condition?		Yes			
9. Was t	the sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	o visible ice, record the temperature. Actual sample ter	nperature: 4°	с			
	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
	abel					
Field L	re field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
20. Wer			<b>T</b> 7			
20. Wer	Date/Time Collected?		Yes			
20. Wer	Date/Time Collected? Collectors name?		Yes No			
20. Wer <u>Sample</u>	Date/Time Collected? Collectors name? 2 <b>Preservation</b>	arried?	No			
<ol> <li>Wer</li> <li><u>Sample</u></li> <li>21. Doe</li> </ol>	Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	erved?	No No			
20. Wer <u>Sample</u> 21. Doe 22. Are	Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were prese sample(s) correctly preserved?		No No NA			
<ol> <li>Wer</li> <li>Sample</li> <li>21. Doe</li> <li>22. Are</li> <li>24. Is la</li> </ol>	Date/Time Collected? Collectors name? • <b>Preservation</b> so the COC or field labels indicate the samples were preserved? sample(s) correctly preserved? wh filteration required and/or requested for dissolved meta		No No			
<ol> <li>Wer</li> <li>Sample</li> <li>21. Doe</li> <li>22. Are</li> <li>24. Is la</li> <li>Multipl</li> </ol>	Date/Time Collected? Collectors name? Preservation so the COC or field labels indicate the samples were prese sample(s) correctly preserved? ab filteration required and/or requested for dissolved meta hase Sample Matrix	als?	No No NA No			
20. Wer <u>Sample</u> 21. Doe 22. Are 24. Is la <u>Multipl</u> 26. Doe	Date/Time Collected? Collectors name? <u>Preservation</u> es the COC or field labels indicate the samples were prese sample(s) correctly preserved? es filteration required and/or requested for dissolved meta hase Sample Matrix_ es the sample have more than one phase, i.e., multiphase?	als?	No No No No			
20. Wer <u>Sample</u> 21. Doe 22. Are 24. Is la <u>Multipl</u> 26. Doe 27. If ye	Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were preserved? ab filteration required and/or requested for dissolved metate hase Sample Matrix es the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	als?	No No NA No			
20. Wer <u>Sample</u> 21. Doe 22. Are 24. Is la <u>Multipl</u> 26. Doe 27. If ye <u>Subcon</u>	Date/Time Collected? Collectors name? Preservation as the COC or field labels indicate the samples were preserved? ab filteration required and/or requested for dissolved metate hase Sample Matrix as the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze utract Laboratory.	als? d?	No NA No No NA			
20. Wer Sample 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon 28. Are	Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were preserved? ab filteration required and/or requested for dissolved metate hase Sample Matrix es the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	als? d?	No No No No	Subcontract Lab: NA		

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



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

## Souder Miller Associates - Carlsbad

Project Name:

Seawolf 1-12 CTB 1

Work Order: E208096

Job Number: 01058-0007

Received: 8/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/19/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 8/19/22

Heather Woods 201 S Halagueno St. Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1 Workorder: E208096 Date Received: 8/18/2022 10:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/18/2022 10:00:00AM, under the Project Name: Seawolf 1-12 CTB 1.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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#### Sample Summary

		Sample Sum	illai y		
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Seawolf 1-12 CTB 1 01058-0007 Heather Woods		<b>Reported:</b> 08/19/22 14:26
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW7	E208096-01A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SW8	E208096-02A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SW9	E208096-03A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
CS10	E208096-04A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
CS11	E208096-05A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
CS12	E208096-06A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
CS13	E208096-07A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.



Sample Data										
Souder Miller Associates - Carlsbad	Project Name	Project Name: Seawolf 1-12 CTB 1								
201 S Halagueno St.	Project Num		58-0007			Reported:				
Carlsbad NM, 88220	Project Mana	ager: Hea	ther Woods			8/19/2022 2:26:48PM				
		SW7								
		E208096-01								
		Reporting								
Analyte	Result	Limit	Dilutic	on Prepared	Analyzed	Notes				
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2234061				
Benzene	ND	0.0250	1	08/18/22	08/18/22					
Ethylbenzene	ND	0.0250	1	08/18/22	08/18/22					
Toluene	ND	0.0250	1	08/18/22	08/18/22					
p-Xylene	ND	0.0250	1	08/18/22	08/18/22					
o,m-Xylene	ND	0.0500	1	08/18/22	08/18/22					
Total Xylenes	ND	0.0250	1	08/18/22	08/18/22					
Surrogate: Bromofluorobenzene		97.4 %	70-130	08/18/22	08/18/22					
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/18/22	08/18/22					
Surrogate: Toluene-d8		95.1 %	70-130	08/18/22	08/18/22					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2234061				
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22					
Surrogate: Bromofluorobenzene		97.4 %	70-130	08/18/22	08/18/22					
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/18/22	08/18/22					
Surrogate: Toluene-d8		95.1 %	70-130	08/18/22	08/18/22					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2234071				
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/22	08/18/22					
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22					
Surrogate: n-Nonane		84.9 %	50-200	08/18/22	08/18/22					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: RAS		Batch: 2234058				
Chloride	21.7	20.0	1	08/17/22	08/18/22					



		impic D						
Souder Miller Associates - Carlsbad	Project Name:	Seav	Seawolf 1-12 CTB 1					
201 S Halagueno St.	Project Numbe	er: 0105	58-0007			Reported:		
Carlsbad NM, 88220	Project Manag	er: Heat	her Woods			8/19/2022 2:26:48PM		
		SW8						
	-	E208096-02						
		Reporting						
Analyte	Result	Limit	Dilut	tion Prepar	ed Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2234061		
Benzene	ND	0.0250	1	08/18/2	22 08/18/22			
Ethylbenzene	ND	0.0250	1	08/18/2	22 08/18/22			
Toluene	ND	0.0250	1	08/18/2	22 08/18/22			
p-Xylene	ND	0.0250	1	08/18/2	22 08/18/22			
o,m-Xylene	ND	0.0500	1	08/18/2	22 08/18/22			
Fotal Xylenes	ND	0.0250	1	08/18/2	22 08/18/22			
Surrogate: Bromofluorobenzene		92.9 %	70-130	08/18/2	22 08/18/22			
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/18/.	22 08/18/22			
Surrogate: Toluene-d8		97.7 %	70-130	08/18/	22 08/18/22			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2234061		
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/2	22 08/18/22			
Surrogate: Bromofluorobenzene		92.9 %	70-130	08/18/2	22 08/18/22			
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/18/.	22 08/18/22			
Surrogate: Toluene-d8		97.7 %	70-130	08/18/.	22 08/18/22			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL		Batch: 2234071		
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/2	22 08/18/22			
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/2	22 08/18/22			
Surrogate: n-Nonane		75.8 %	50-200	08/18/	22 08/18/22			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS		Batch: 2234058		
Chloride	ND	20.0	1	08/17/2	22 08/18/22			



	~	ampic D					
Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 C				
201 S Halagueno St.	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Heat	ther Woods				8/19/2022 2:26:48PM
		SW9					
		E208096-03					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Ŷ		Batch: 2234061
Benzene	ND	0.0250	1	1	08/18/22	08/18/22	
Ethylbenzene	ND	0.0250	1	1	08/18/22	08/18/22	
Toluene	ND	0.0250	1	1	08/18/22	08/18/22	
p-Xylene	ND	0.0250	1	1	08/18/22	08/18/22	
o,m-Xylene	ND	0.0500	1	1	08/18/22	08/18/22	
Total Xylenes	ND	0.0250	1	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene		95.7 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8		97.7 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: P	Ŷ		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene		95.7 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8		97.7 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JI	Ĺ		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/18/22	08/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	1	08/18/22	08/18/22	
Surrogate: n-Nonane		83.0 %	50-200		08/18/22	08/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2234058
Chloride	165	20.0	1	1	08/17/22	08/18/22	



	~.	impic D					
Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 C	TB 1			
201 S Halagueno St.	Project Numbe	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Heat	her Woods				8/19/2022 2:26:48PM
		CS10					
		E208096-04					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2234061
Benzene	ND	0.0250	:	1	08/18/22	08/18/22	
thylbenzene	ND	0.0250	:	1	08/18/22	08/18/22	
<b>`oluene</b>	ND	0.0250	:	1	08/18/22	08/18/22	
-Xylene	ND	0.0250	:	1	08/18/22	08/18/22	
,m-Xylene	ND	0.0500	:	1	08/18/22	08/18/22	
otal Xylenes	ND	0.0250		1	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		101 %	70-130		08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/18/22	08/18/22	
urrogate: Toluene-d8		97.1 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		101 %	70-130		08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/18/22	08/18/22	
urrogate: Toluene-d8		97.1 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	ЛL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	:	1	08/18/22	08/18/22	
Dil Range Organics (C28-C36)	ND	50.0		1	08/18/22	08/18/22	
urrogate: n-Nonane		81.5 %	50-200		08/18/22	08/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2234058
Chloride	ND	20.0		1	08/17/22	08/18/22	



		ampic D					
Souder Miller Associates - Carlsbad	Project Name:	Seav	wolf 1-12 C				
201 S Halagueno St.	Project Number		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Heat	ther Woods				8/19/2022 2:26:48PM
		CS11					
		E208096-05					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2234061
Benzene	ND	0.0250	1	1	08/18/22	08/18/22	
Ethylbenzene	ND	0.0250	1	1	08/18/22	08/18/22	
Toluene	ND	0.0250	1	1	08/18/22	08/18/22	
p-Xylene	ND	0.0250	1	1	08/18/22	08/18/22	
o,m-Xylene	ND	0.0500	1	1	08/18/22	08/18/22	
Total Xylenes	ND	0.0250	1	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8		98.3 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: Г	Y		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8		98.3 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/18/22	08/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	1	08/18/22	08/18/22	
Surrogate: n-Nonane		75.4 %	50-200		08/18/22	08/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	RAS		Batch: 2234058
Chloride	338	20.0	1	1	08/17/22	08/18/22	



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Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 C	TB 1			
201 S Halagueno St.	Project Numbe	er: 0105	01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Heat	ther Woods				8/19/2022 2:26:48PM
		CS12					
		E208096-06					
		Reporting					
Analyte	Result	Limit	Dilu	tion l	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2234061
Benzene	ND	0.0250	1	. (	08/18/22	08/18/22	
thylbenzene	ND	0.0250	1	. (	08/18/22	08/18/22	
oluene	ND	0.0250	1	. (	08/18/22	08/18/22	
-Xylene	ND	0.0250	1	. (	08/18/22	08/18/22	
,m-Xylene	ND	0.0500	1	. (	08/18/22	08/18/22	
otal Xylenes	ND	0.0250	1	. (	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		97.9 %	70-130	(	08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	(	08/18/22	08/18/22	
urrogate: Toluene-d8		96.8 %	70-130	(	08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	. (	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		97.9 %	70-130	(	08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	(	08/18/22	08/18/22	
urrogate: Toluene-d8		96.8 %	70-130	(	08/18/22	08/18/22	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	. (	08/18/22	08/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	. (	08/18/22	08/18/22	
urrogate: n-Nonane		158 %	50-200	(	08/18/22	08/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS	5		Batch: 2234058
Chloride	664	20.0	1	(	08/17/22	08/18/22	



		ampic D					
Souder Miller Associates - Carlsbad	Project Name:	Seav	volf 1-12 C	CTB 1			
201 S Halagueno St.	Project Numb	er: 0105	58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Heat	her Woods				8/19/2022 2:26:48PM
		CS13					
		E208096-07					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2234061
Benzene	ND	0.0250		1	08/18/22	08/18/22	
Ethylbenzene	ND	0.0250		1	08/18/22	08/18/22	
Toluene	ND	0.0250		1	08/18/22	08/18/22	
-Xylene	ND	0.0250		1	08/18/22	08/18/22	
,m-Xylene	ND	0.0500		1	08/18/22	08/18/22	
Total Xylenes	ND	0.0250		1	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		94.3 %	70-130		08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/18/22	08/18/22	
urrogate: Toluene-d8		93.8 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/18/22	08/18/22	
urrogate: Bromofluorobenzene		94.3 %	70-130		08/18/22	08/18/22	
urrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/18/22	08/18/22	
urrogate: Toluene-d8		93.8 %	70-130		08/18/22	08/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0		1	08/18/22	08/18/22	
Dil Range Organics (C28-C36)	ND	50.0		1	08/18/22	08/18/22	
urrogate: n-Nonane		86.3 %	50-200		08/18/22	08/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2234058
Chloride	256	20.0		1	08/17/22	08/18/22	



## QC Summary Data

		<b>X</b> U V V			-				
Souder Miller Associates - Carlsbad		Project Name:	S	eawolf 1-12 CT	В1				<b>Reported:</b>
201 S Halagueno St.		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	Н	eather Woods					8/19/2022 2:26:48PM
	V	olatile Organic	Compo	unds by EP.	A 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 (2234061-BLK1)							Prepared: 08	8/18/22 Ar	nalyzed: 08/18/22
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: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
LCS (2234061-BS1)							Prepared: 08	8/18/22 Ar	nalyzed: 08/18/22
Benzene	2.31	0.0250	2.50		92.4	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.3	70-130			
Toluene	2.17	0.0250	2.50		86.9	70-130			
o-Xylene	2.33	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.53	0.0500	5.00		90.6	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.2	70-130			
LCS Dup (2234061-BSD1)							Prepared: 08	8/18/22 Ar	nalyzed: 08/19/22
Benzene	2.27	0.0250	2.50		90.9	70-130	1.64	23	
Ethylbenzene	2.33	0.0250	2.50		93.0	70-130	0.279	27	
Toluene	2.20	0.0250	2.50		88.2	70-130	1.46	24	
p-Xylene	2.41	0.0250	2.50		96.2	70-130	2.97	27	
p,m-Xylene	4.72	0.0500	5.00		94.4	70-130	4.14	27	
Total Xylenes	7.12	0.0250	7.50		95.0	70-130	3.75	27	
	0.515		0.500		103	70-130			
Surrogate: Bromofluorobenzene									
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			



## **QC Summary Data**

		Y V V		ing Duc					
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	eawolf 1-12 C 1058-0007 leather Woods	TB 1				<b>Reported:</b> 8/19/2022 2:26:48PM
	No	onhalogenated O	rganics	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2234061-BLK1)							Prepared: 0	8/18/22 A	nalyzed: 08/18/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
LCS (2234061-BS2)							Prepared: 0	8/18/22 A	nalyzed: 08/19/22
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		90.0	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
LCS Dup (2234061-BSD2)							Prepared: 0	8/18/22 A	nalyzed: 08/19/22
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130	7.25	20	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			


# **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$							
Souder Miller Associates - Carlsbad		Project Name:	Se	eawolf 1-12 C	TB 1				Reported:
201 S Halagueno St.		Project Number:	01	058-0007					-
Carlsbad NM, 88220		Project Manager:	H	eather Woods					8/19/2022 2:26:48PM
	Nonh	alogenated Org	anics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2234071-BLK1)							Prepared: 0	8/18/22 A	analyzed: 08/18/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		85.9	50-200			
LCS (2234071-BS1)							Prepared: 0	8/18/22 A	analyzed: 08/18/22
Diesel Range Organics (C10-C28)	229	25.0	250		91.4	38-132			
Surrogate: n-Nonane	42.9		50.0		85.9	50-200			
LCS Dup (2234071-BSD1)							Prepared: 0	8/18/22 A	analyzed: 08/18/22
Diesel Range Organics (C10-C28)	228	25.0	250		91.1	38-132	0.367	20	
Surrogate: n-Nonane	40.3		50.0		80.5	50-200			



# **QC Summary Data**

				v					
Souder Miller Associates - Carlsbad		Project Name:	S	eawolf 1-12 C	TB 1				Reported:
201 S Halagueno St.		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	H	Ieather Woods					8/19/2022 2:26:48PM
		Anions	by EPA	300.0/90564	١				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2234058-BLK1)							Prepared: 0	8/17/22	Analyzed: 08/17/22
Chloride	ND	20.0							
LCS (2234058-BS1)							Prepared: 0	8/17/22	Analyzed: 08/17/22
Chloride	263	20.0	250		105	90-110			
LCS Dup (2234058-BSD1)							Prepared: 0	8/17/22	Analyzed: 08/17/22
Chloride	254	20.0	250		101	90-110	3.47	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**

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	08/19/22 14:26
Carlsbad NM, 88220	Project Manager:	Heather Woods	(

ND	Analyte NOT DETECTED at or above the reporting limit
1.12	rinaryte no r beree reb at or above the reporting initi

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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Souder Miller & Associates	Attention: Devon		Lab V	NO≒		1.	lob N	lumbe	er	1D	3D	RCRA	CWA	SDWA
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Manager: Heather Woods					<u>v</u> <u>v</u>	1	Analy	sis and	Metho	d /				State
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Chain of Custody



Received by OCD: 1/10/2023 9:10:06 AM

Page ____ of ___

EPA Program

TAT

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leceived	by OCD: 1/10/2023 9:10:06 AM	Envirotech	Analyt	tical Laboratory	]	<i>Page 1</i> Printed: 8/18/2022 11:12:	
			•	Checklist (SRC)			
	Please take note of any NO checkmarks. no response concerning these items within 24 hours of	- the date of this not	tice, all the s	samples will be analyzed as re	quested.		
Client:	Souder Miller Associates - Carlsbad	Date Received:	08/18/22	10:00	Work Order ID:	E208096	
Phone:	(575) 200-5443	Date Logged In:	08/17/22	16:08	Logged In By:	Caitlin Christian	
Email:		Due Date:	08/18/22	17:00 (0 day TAT)			
<u>Chain of</u>	Custody (COC)						
	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: UPS			
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	ll samples received within holding time? Note: Analysis, such as pH which should be conducted i		Yes		Common	nts/Resolution	
~	i.e, 15 minute hold time, are not included in this disucssi	ion.			Commen		
	<u>urn Around Time (TAT)</u>		37				
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	ample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	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		Yes				
13. If no v	visible ice, record the temperature. Actual sample	e temperature: <u>4</u> °	<u>°C</u>				
Sample C	<u>Container</u>						
14. Are ad	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	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contai	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info	ormation:	**				
	ample ID? ate/Time Collected?		Yes				
	ollectors name?		Yes No				
	reservation		110				
	the COC or field labels indicate the samples were p	reserved?	No				
	umple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved r	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	ise?	No				
	does the COC specify which phase(s) is to be anal		NA				
•	act Laboratory	-	- •• •				
	umples required to get sent to a subcontract laborate	my?	No				
	subcontract laboratory specified by the client and i		NA	Subcontract I aby NIA			
27. was a	subcontract raboratory specified by the chefit and I	1 50 WII0?	11/1	Subcontract Lab: NA			

### **Client Instruction**

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







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# Souder Miller Associates - Carlsbad

Project Name:

Seawolf 1-12 CTB 1

Work Order: E208128

Job Number: 01058-0007

Received: 8/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/25/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 8/25/22

Heather Woods 201 S Halagueno St. Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1 Workorder: E208128 Date Received: 8/24/2022 10:30:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/24/2022 10:30:00AM, under the Project Name: Seawolf 1-12 CTB 1.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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CS 12 @ 4'

SW10

		Sample Sum	mary				
Souder Miller Associates - Carlsbad		Project Name:	Seawolf 1-12 CTB 1		Reported:		
201 S Halagueno St.		Project Number:	01058-0007		Reporteu.		
Carlsbad NM, 88220		Project Manager:	Heather Woods		08/25/22 13:35		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		

Soil

Soil

E208128-01A

E208128-02A

08/22/22

08/22/22

08/24/22

08/24/22

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2	envirotech Inc.

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Glass Jar, 2 oz.

Glass Jar, 2 oz.

		mpic D				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Project Number Project Manage	r: 010:	volf 1-12 CT 58-0007 ther Woods	Ъ1		<b>Reported:</b> 8/25/2022 1:35:46PM
,						
		CS 12 @ 4' E208128-01				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: IY		Batch: 2235014
Benzene	ND	0.0250	1	08/24/22	08/24/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/24/22	
Toluene	ND	0.0250	1	08/24/22	08/24/22	
p-Xylene	ND	0.0250	1	08/24/22	08/24/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/24/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/24/22	08/24/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/24/22	08/24/22	
Surrogate: Toluene-d8		105 %	70-130	08/24/22	08/24/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	analyst: IY		Batch: 2235014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/24/22	08/24/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/24/22	08/24/22	
Surrogate: Toluene-d8		105 %	70-130	08/24/22	08/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
Surrogate: n-Nonane		78.4 %	50-200	08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: RAS		Batch: 2235034
Chloride	122	20.0	1	08/24/22	08/24/22	

# Sample Data



	5	ample D	ala				
Souder Miller Associates - Carlsbad	Project Name		volf 1-12 C	CTB 1			
201 S Halagueno St.	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Mana	ger: Heat	Heather Woods				8/25/2022 1:35:46PM
		SW10					
		E208128-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2235014
Benzene	ND	0.0250		1	08/24/22	08/24/22	
Ethylbenzene	ND	0.0250		1	08/24/22	08/24/22	
Toluene	ND	0.0250		1	08/24/22	08/24/22	
p-Xylene	ND	0.0250		1	08/24/22	08/24/22	
p,m-Xylene	ND	0.0500		1	08/24/22	08/24/22	
Total Xylenes	ND	0.0250		1	08/24/22	08/24/22	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/24/22	08/24/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/24/22	08/24/22	
Surrogate: Toluene-d8		101 %	70-130		08/24/22	08/24/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2235014
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/24/22	08/24/22	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/24/22	08/24/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/24/22	08/24/22	
Surrogate: Toluene-d8		101 %	70-130		08/24/22	08/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0		1	08/24/22	08/24/22	
Dil Range Organics (C28-C36)	ND	50.0		1	08/24/22	08/24/22	
Surrogate: n-Nonane		86.1 %	50-200		08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2235034
Chloride	62.2	20.0		1	08/24/22	08/24/22	



# **QC Summary Data**

Souder Miller Associates - Carlsbad		Project Name:		awolf 1-12 CT	В 1				Reported:
201 S Halagueno St.	Project Number: 01058-0007								
Carlsbad NM, 88220		Project Manager:	He	eather Woods				8	/25/2022 1:35:46PM
		Volatile Organic	Analyst: IY						
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2235014-BLK1)							Prepared: 0	8/23/22 An	alyzed: 08/23/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
LCS (2235014-BS1)							Prepared: 0	8/23/22 An	alyzed: 08/23/22
. ,	2.19	0.0250	2.50		87.7	70-130	Trepured. 0	0,20,22 I m	aryzea. 00/25/22
Benzene		0.0250							
Ethylbenzene	2.31	0.0250	2.50		92.4	70-130			
Toluene	1.90	0.0250	2.50		76.1	70-130			
o-Xylene	2.05	0.0250	2.50		82.1	70-130			
p,m-Xylene	4.52	0.0500	5.00		90.4	70-130			
Total Xylenes	6.57	0.0250	7.50		87.6	70-130			
Surrogate: Bromofluorobenzene	0.431		0.500		86.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.424		0.500		84.8	70-130			
Matrix Spike (2235014-MS1)				Source: I	E <b>208112-</b> (	)3	Prepared: 0	8/23/22 An	alyzed: 08/23/22
Benzene	2.13	0.0250	2.50	ND	85.2	48-131			
Ethylbenzene	2.23	0.0250	2.50	ND	89.2	45-135			
Toluene	2.10	0.0250	2.50	ND	84.1	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.4	43-135			
p,m-Xylene	4.47	0.0500	5.00	ND	89.5	43-135			
Total Xylenes	6.76	0.0250	7.50	ND	90.1	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike Dup (2235014-MSD1)				Source: I	E <b>208112-</b> (	03	Prepared: 0	8/23/22 An	alyzed: 08/23/22
Benzene	2.10	0.0250	2.50	ND	84.2	48-131	1.20	23	
Ethylbenzene	2.22	0.0250	2.50	ND	88.9	45-135	0.337	27	
Toluene	2.10	0.0250	2.50	ND	83.8	48-130	0.405	24	
o-Xylene	2.29	0.0250	2.50	ND	91.8	43-135	0.437	27	
p,m-Xylene	4.49	0.0500	5.00	ND	89.8	43-135	0.335	27	
Total Xylenes	6.78	0.0250	7.50	ND	90.4	43-135	0.369	27	
Surrogate: Bromofluorobenzene	0.513	0.0200	0.500		103	70-130		•	
			0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		90.2	/0-150			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



# **QC Summary Data**

				- J	•				
Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	eawolf 1-12 CT 1058-0007 eather Woods	ГВ 1				<b>Reported:</b> 8/25/2022 1:35:46PM
	N	onhalogenated O	rganics	by EPA 801	5D - GR	0			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2235014-BLK1)							Prepared: 0	8/23/22	Analyzed: 08/23/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
LCS (2235014-BS2)							Prepared: 0	8/23/22	Analyzed: 08/23/22
Gasoline Range Organics (C6-C10)	38.1	20.0	50.0		76.1	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Matrix Spike (2235014-MS2)				Source: l	E208112-03	3	Prepared: 0	8/23/22	Analyzed: 08/23/22
Gasoline Range Organics (C6-C10)	38.2	20.0	50.0	ND	76.3	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			
Matrix Spike Dup (2235014-MSD2)				Source: l	E208112-03	3	Prepared: 0	8/23/22	Analyzed: 08/23/22
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	81.9	70-130	7.10	20	
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			
urrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			



# **QC Summary Data**

		QU N	<b>411111</b>	ary Date					
Souder Miller Associates - Carlsbad 201 S Halagueno St.		Project Name: Project Number:		Seawolf 1-12 C 01058-0007	TB 1				Reported:
Carlsbad NM, 88220		Project Manager:	I	Heather Woods					8/25/2022 1:35:46PM
	Nonh	alogenated Org	anics by	y EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2235025-BLK1)							Prepared: 0	8/23/22 A	nalyzed: 08/24/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			
LCS (2235025-BS1)							Prepared: 0	8/23/22 A	analyzed: 08/24/22
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	35.7		50.0		71.4	50-200			
Matrix Spike (2235025-MS1)				Source:	E208123-	03	Prepared: 0	8/23/22 A	analyzed: 08/24/22
Diesel Range Organics (C10-C28)	8930	1250	250	8760	67.9	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2235025-MSD1)				Source:	E208123-	03	Prepared: 0	8/23/22 A	analyzed: 08/24/22
Diesel Range Organics (C10-C28)	9260	1250	250	8760	201	38-132	3.67	20	M4
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			



# **QC Summary Data**

				v					
Souder Miller Associates - Carlsbad		Project Name:	S	eawolf 1-12 C	TB 1				Reported:
201 S Halagueno St.		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	H	leather Woods					8/25/2022 1:35:46PM
		Anions	by EPA	300.0/90564	۱				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2235034-BLK1)							Prepared: 0	8/24/22	Analyzed: 08/24/22
Chloride	ND	20.0							
LCS (2235034-BS1)							Prepared: 0	8/24/22	Analyzed: 08/24/22
hloride	249	20.0	250		99.6	90-110			
LCS Dup (2235034-BSD1)							Prepared: 0	8/24/22	Analyzed: 08/24/22
Chloride	252	20.0	250		101	90-110	1.21	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.



_		Demition		
ſ	Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	
l	201 S Halagueno St.	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Heather Woods	08/25/22 13:35

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



ject Information					1.14			. (2	USH TAT	_	E	PA Progra	ım
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ent: Souder Mully + Associates piect: Seawolf 1-12 (TB) piect Manager: Heathur Moods Standard Webo St	Attention: Dev an Address:	N	Lab M	208	128	01	058.	0007	X			St	ate
pject Manager: Hcattur Woods	City, State, Zip					Ana	lysis ar	d Method	1 1				UTAZ
oject Manager: Heatbur Myours Idress: 2015 Hila weho St cy, State, Zio av 5 lood, NIM 88220	Phone:											X	
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eport due by:	NUTE 2 STO. 5 GOV	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		BGDOC - NM	BGDOC · 1X		Re	marks
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(field sampler), attest to the validity and authenticity of this sample. Far	- V	ple location, date	or or	-			Samples re received p	ouring thermal acked in ice at a	preservat: n avg temp	or must b above D	but less than	é Consublequi	ent davs
Ifield sampler), attest to the validity and authenticity of this sample. Fail time of toplection is considered fraud and may be grounds for legal action	n zware that tampering zith or intentionally mislabelling the same Sampled by: Time Received by: (Signature	+frat	m	-1-		1 6					Use On		
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Relinquished by (Signature) Date 333	4. 5 Beth Chil	~ 8/2	.4/2	21	0::	50	T1		1	2		<u>T3</u>	
Reinquisted by: (Signature) Date	Time Received by: (Sigrature)	Date		T	ımə		AVG	Temp ^c C	4				
		Cont	ainer T	vpe.	g - gla	ss, p -		and the second		glass,	v - VOA		unios y contra
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - C Note: Samples are discarded 30 days after results are reported in the bhoratory with this COC.	other	will be returne	d to clier	nt or d	lisposed	of at th	e client e	pense The	report f	or the a	inal vsis of	the spove sa	mples is applica
Note: Samples are discarded 30 days after results are reported in only to those samples received by the laboratory with this COC.	The liability of the laboratory is limited to the amount pa	aid for on the re	eport										

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## **Envirotech Analytical Laboratory**

		Sample	Receipt	Checklist (SRC)	J	-	
	: Please take note of any NO checkmarks. e no response concerning these items within 24 hours of the	date of this not	ice, all the	samples will be analy	yzed as requested.		
Client:	Souder Miller Associates - Carlsbad D	ate Received:	08/24/22	2 10:30	W	Vork Order ID:	E208128
Phone:	(575) 200-5443 D	ate Logged In:	08/23/22	2 16:42	L	ogged In By:	Caitlin Christian
Email:	D	ue Date:	08/24/22	2 17:00 (0 day TAT)			
<u>Chain o</u>	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: UF	<u>PS</u>		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	1 analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes			<u>Commen</u>	ts/Resolution
Sample	Turn Around Time (TAT)			Г			
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	-						
	sample cooler received?		Yes				
8. If yes,	, was cooler received in good condition?		Yes				
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re minutes of sampling visible ice, record the temperature. Actual sample ter	ceived w/i 15	Yes				
		претаture. <u>+</u>	<u>c</u>				
	Container aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containers	s collected?	Yes				
Field La							
-	e field sample labels filled out with the minimum inform	ation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes	L			
	Collectors name?		No				
	Preservation	10					
	s the COC or field labels indicate the samples were prese	erved?	No				
	sample(s) correctly preserved? o filteration required and/or requested for dissolved meta	1.9	NA				
		a15 (	No				
	ase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase?		No				
-	s, does the COC specify which phase(s) is to be analyze	ur	NA				
	ract Laboratory_						
	samples required to get sent to a subcontract laboratory?		No				
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab:	na		
Client I	Instruction						

**<u>Client Instruction</u>** 

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



envirotech Inc.

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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 Bio Brozos Bd. Artes, NM 97410

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

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

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

COMMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	174469
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### COMMENTS

Created By		Comment Date
jharimon	Missing an Initial C-141 Submission	1/10/2023

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Action 174469

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	174469
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved. Please note going forward sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release on pad, regardless of the depth to groundwater. Two samples exceeded this requirement, SW1 and SW4, but due to infrastructure, OCD will approve closure. Please implement 19.15.29.13 NMAC when completing P&A.	2/1/2023

Action 174469