

Incident ID	nAPP2125141291
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?	<u>&gt;55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/24/2023  
email: Dale.Woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 01/24/2023

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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/24/2023  
email: Dale.Woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 01/24/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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

January 23, 2023

#5E31003-BG3

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

SUBJECT: Remediation Plan with Request for Deferral for the Seawolf 1-12 CTB 1 (nrm2004353184 and nAPP2125141291), Lea County, New Mexico

## **1.0 Introduction**

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Remediation Plan with Request for Deferral that describes the remediation of a produced water release related to oil and gas production activities at the Seawolf 1-12 CTB 1 (nrm2004353184 and nAPP2125141291). 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.

<b>Table 1: Release Information and Closure Criteria</b>			
Name	Seawolf 1-12 CTB 1	Company	Devon Energy Production Company
API Number	N/A	Location	32.077077, -103.526861
Land Status	Federal (BLM)	NMOCD Closure Criteria	51 to 100 feet bgs
<b>Incident Number nrm2004353184</b>			
Date Release Discovered	January 23, 2020	Source of Release	Water dump valve of Seawolf 86H separator
Released Volume	17.65 barrels (bbls) Produced Water	Recovered Volume	15 bbls Produced Water
<b>Incident Number nAPP2125141291</b>			
Date Release Discovered	August 20, 2021	Source of Release	Pin hole leak on water dump line
Released Volume	5.99 bbls Produced Water	Recovered Volume	5 bbls Produced Water

## **2.0 Background**

On January 23, 2020, and August 20, 2021, produced water releases were 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. Copies of the notifications of release are 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).



## Seawolf 1-12 CTB 1 Remediation Plan and Deferral Request January 23, 2023

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### 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 site. 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.

### 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 per Table I of 19.15.29.12 NMAC.

## **4.0 Release Characterization and Remediation Activities**

A release characterization was completed for the release area which included the advancement of 35 soil borings (SB-22 through SB-52, BH-53 through BH-55, and AS-08) using a hand auger. Soil samples were collected from the surface and at 1-foot intervals or less depending on subsurface conditions to the total boring depths or to auger refusal on underlying caliche rock. 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.

Release characterization 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 release characterization, impacted soils were excavated except as restricted by proximity to production equipment. Excavation confirmation samples were collected on July 29, and August 4, 11, and 17, 2022. Copies of the sampling notifications are included in Appendix A. 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 release characterization samples.

Seawolf 1-12 CTB 1 Remediation Plan and Deferral Request  
January 23, 2023

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Laboratory analytical results report benzene, total BTEX, and total TPH concentrations below the NMOCD Closure Criteria for all samples except for 14 sample areas including: SC-01 through SC-04, SC-07, SC-09, SC-10, SC-24, SC-25, SC-30, SC-35, SC-36, SC-41, and SC-42. Additional excavation in these areas was not possible due to proximity to production equipment.

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 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 and Deferral Request**

As demonstrated in Table 4, all excavation confirmation samples meet NMOCD Closure Criteria except for 14 sample areas (SC-01 through SC-04, SC-07, SC-09, SC-10, SC-24, SC-25, SC-30, SC-35, SC-36, SC-41, and SC-42) and those areas immediately under production equipment as illustrated on Figure 4. Additional remedial excavation is not possible in these areas due to proximity of production equipment. The area of the requested deferral measures approximately 7,256 square feet and appears to extend to depths ranging from 0.5 to 1.5 feet bgs.

**SMA recommends no further action at this time and requests deferral of remediation of the residual impacted material for Incident Numbers nrm2004353184 and nAPP2125141291.**

## **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, P.G.  
Project Geoscientist

Seawolf 1-12 CTB 1 Remediation Plan and Deferral Request  
January 23, 2023

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**REFERENCES:**

New Mexico Office of the State Engineer (NMOSE) online water well database  
[https://gis.ose.state.nm.us/gisapps/ose\\_pod\\_locations/](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](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: Release Characterization Map

Figure 4: Excavation Confirmation Sample Location Map

**Tables:**

Table 2: NMOCD Closure Criteria

Table 3: Summary of Release Characterization Field Screening and Laboratory Analytical Results

Table 4: Summary of Excavation Confirmation Laboratory Analytical Results

**Appendices:**

Appendix A: Correspondence

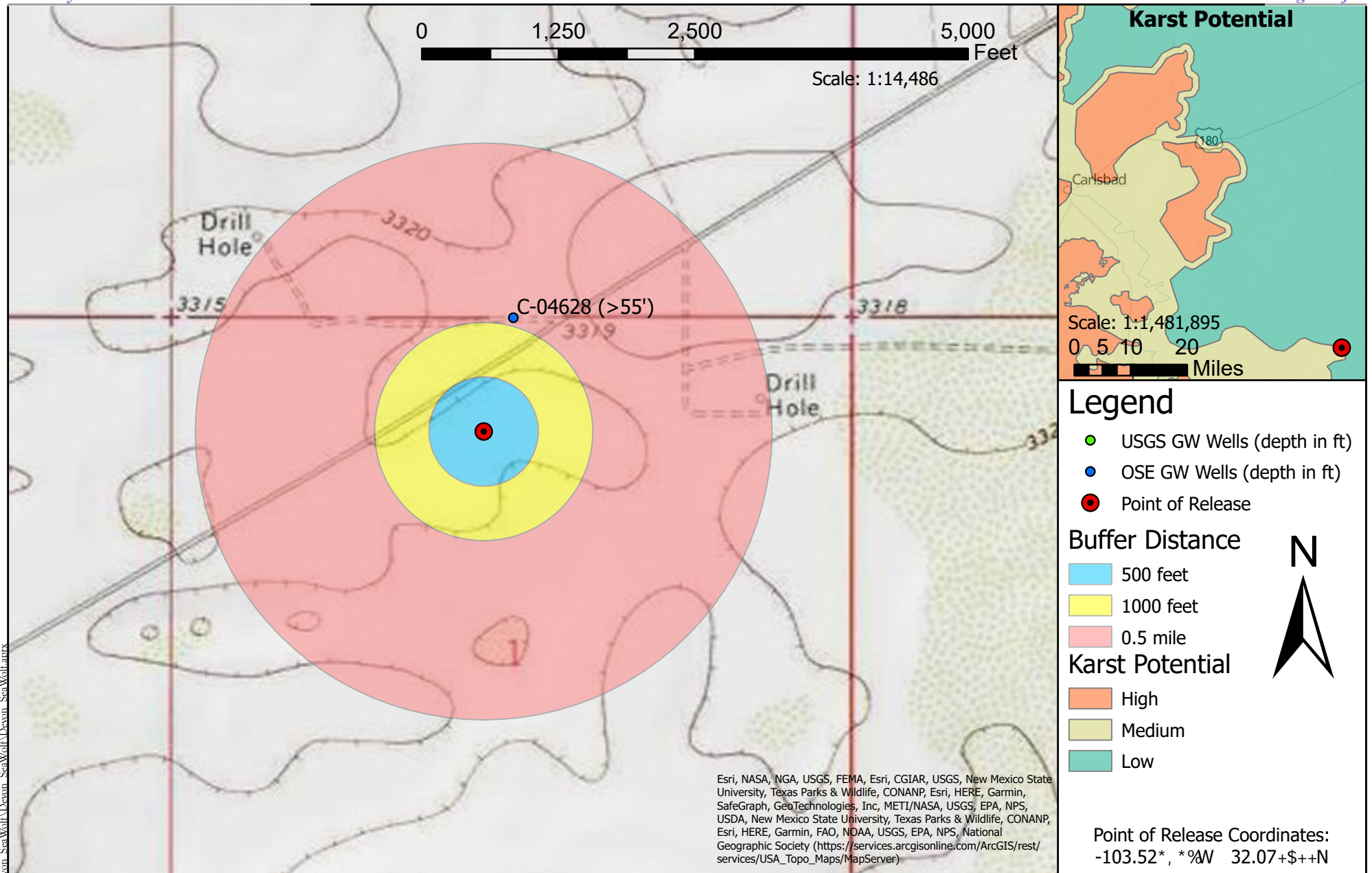
Appendix B: Water Well Data

Appendix C: Field Notes and Photograph Log

Appendix D: Sampling Protocol

Appendix E: Laboratory Analytical Reports

# FIGURES



## Topographic Site Map

SeaWolf 1-12 CTB 1 - Devon Energy Production Company

UL: C S: 1 T: 26S R: 33E, Lea County, New Mexico

Figure 1

## Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

Drawn

Sarahmay Schlea

Date

1/9/2023

Checked

Approved



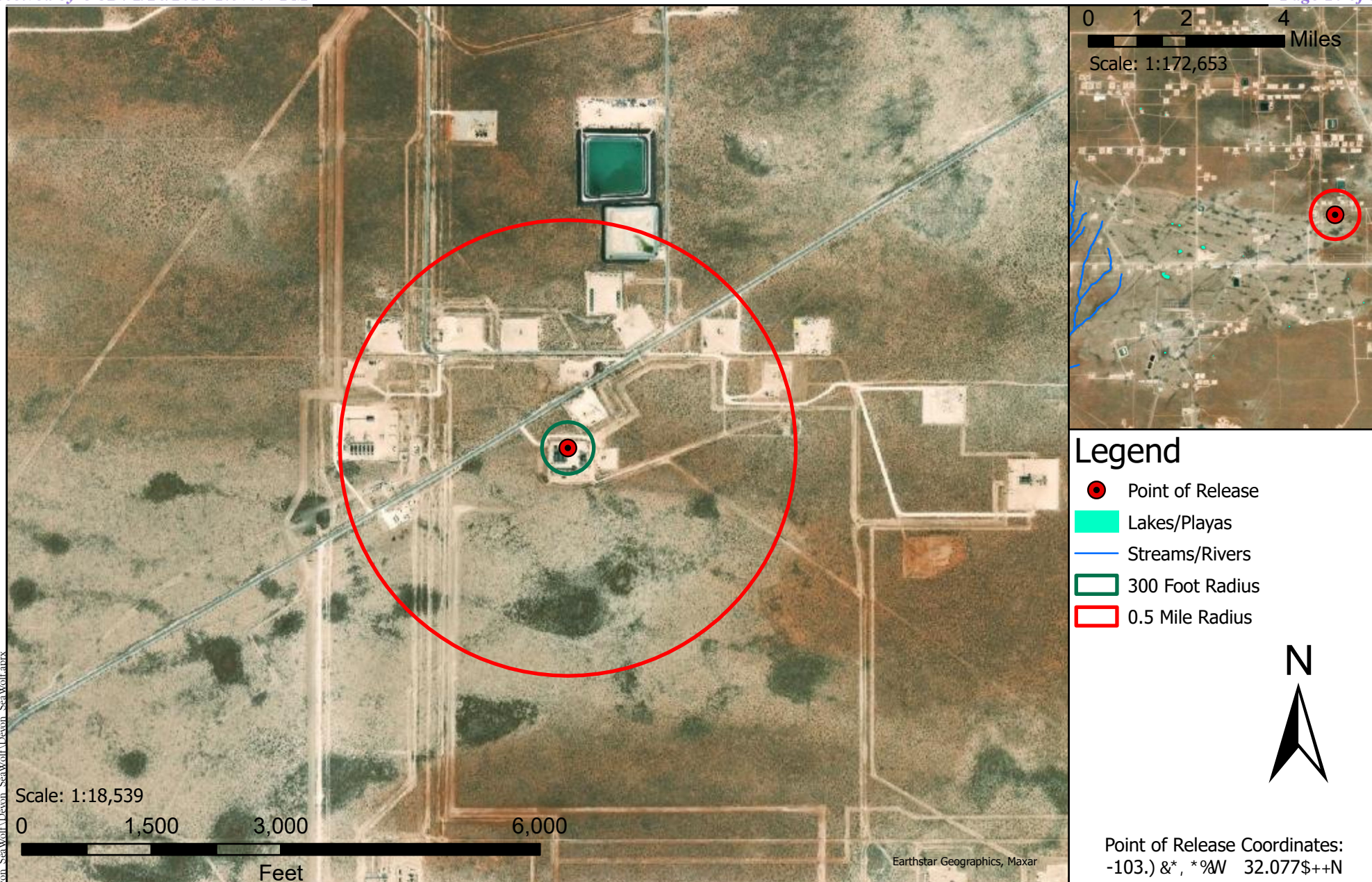
201 South Halaguena Street  
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## Aerial Site Map

SeaWolf 1-12 CTB 1 - Devon Energy Production Company

UL: C S: 1 T: 26S R: 33E, Lea County, New Mexico

Figure 2

## Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

Drawn  
Date  
Checked  
Approved

Sarahmay Schlea

12/7/2022



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## Legend

● Soil Borings

0 15 30 60  
Feet

Scale: 1:390



Coordinates:  
-103.5&\*, \*%W 32.07+\$++N

Soil Boring Location Map  
SeaWolf 1-12 CTB 1 - Devon Energy Production Company  
UL: C S: 1 T: 26S R: 33E, Lea County, New Mexico

Figure 3

### Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

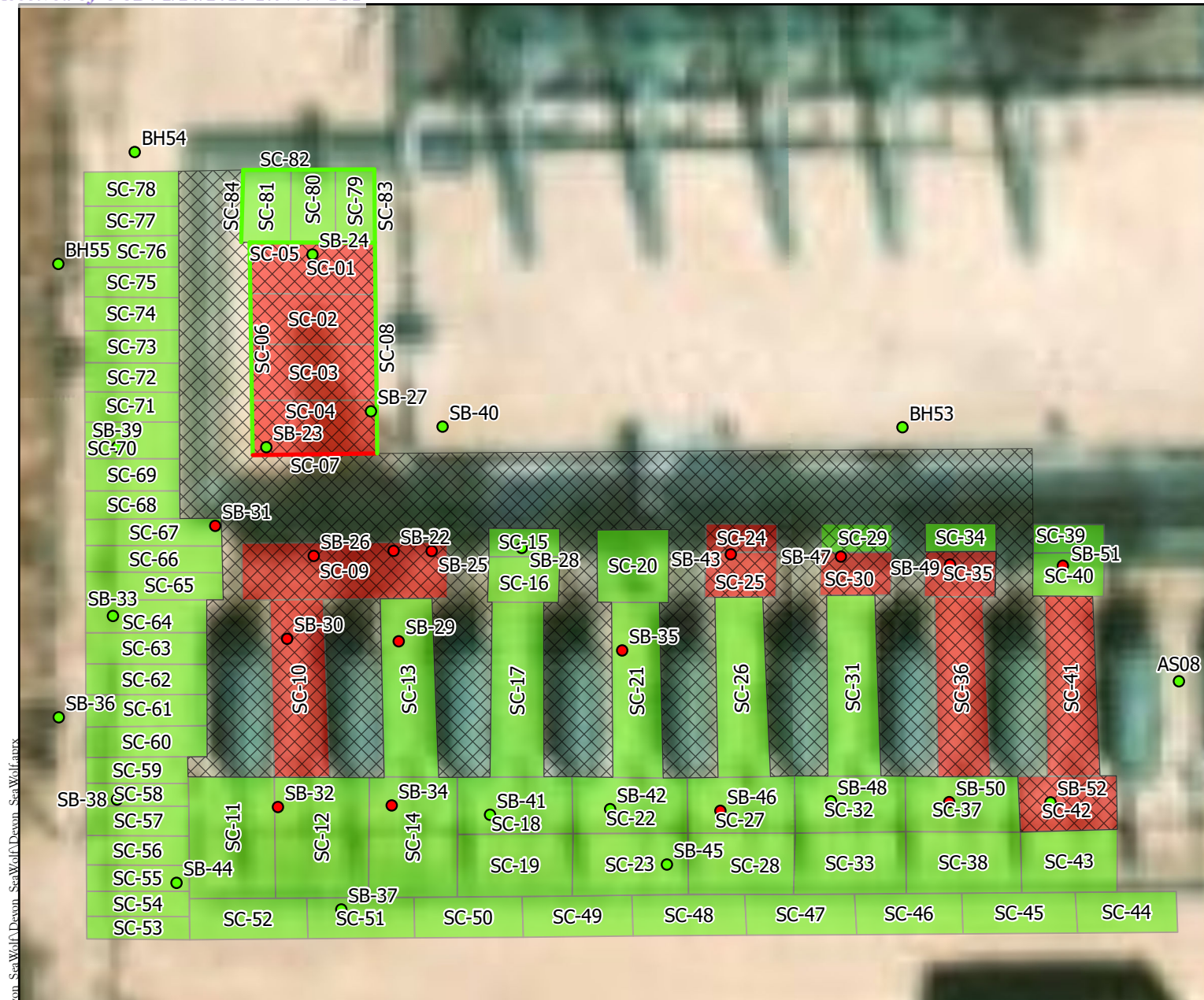
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Drawn  
Date  
Checked  
Approved

Sarahmay Schlea  
1/23/2023  
\_\_\_\_\_  
\_\_\_\_\_



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## Legend

### Soil Borings

- Exceeds Closure Criteria
- Meets Closure Criteria

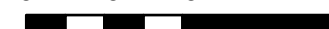
### Sidewall Samples

- Exceeds Closure Criteria
- Meets Closure Criteria

### Composite Samples

- Exceeds Closure Criteria
- Meets Closure Criteria
- Deferral Area

0 10 20 40



Feet  
Scale: 1:295



Coordinates:

-103.52\*, \*%W 32.07+\$++N

Excavation Confirmation Sample Location Map  
SeaWolf 1-12 CTB 1 - Devon Energy Production Company  
UL: C S: 1 T: 26S R: 33E, Lea County, New Mexico

Figure 4

#### Revisions

By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

Drawn  
Date  
Checked  
Approved

Sarahmay Schlea  
1/23/2023



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# TABLES

Table 2:  
NMOCD Closure CriteriaDevon Energy Production Co  
Seawolf 1-12 CTB 1  
nrm2004262184 and nAPP2125141291

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	>55	USGS Topo Map and Test Well (C-04628)
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	None	New Mexico Office of the State Engineer
Horizontal Distance to Nearest Significant Watercourse (ft)	20,650	United States Geological Survey Topo Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'	X	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<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					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

SMA #

Table 3:  
Summary of Release Characterization Field Screening  
and Laboratory Analytical Results

Devon Energy Production Co  
Seawolf 1-12 CTB 1  
nrm2004262184 and nAPP2125141291

Sample ID	Sample Date	Depth of Sample (feet bgs)	Field Screening		Method 8021B		Method 8015D					Method 300.0
			VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			ppm	mS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Delineation Criteria			--	-	50	10	--	--	--	--	100	600
NMOCD Closure Criteria			--	-	50	10	--	--	1,000	--	2,500	10,000
SB-22	5/19/2022	0	417	19.55	43.7	0.304	350	44,200	44,500	41,200	85,750	28,300
		1	2394	2.1	94.4	1.23	897	7,880	8,777	1,940	10,717	2,980
		1.25	932	4.48	90.2	0.792	744	20,900	21,644	6,340	27,984	6,520
SB-23	5/19/2022	0	20.2	5.11	<0.100	<0.0250	<20.0	72.8	72.8	117	190	8,020
		0.83 (10")	12.3	1.72	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	2,740
SB-24	5/19/2022	0	8	0.22	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	106
		1	6.1	0.11	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	42.8
SB-25	5/19/2022	0	26.9	12.31	<0.100	<0.0250	<20.0	34.8	34.8	<50.0	34.8	25,900
		1	15.2	1.59	<0.100	<0.250	<20.0	30.0	30.0	<50.0	30.0	2,510
SB-26	5/19/2022	0	4.4	18.1	<0.100	<0.0250	<20.0	73.7	73.7	84.4	158.1	32,500
		1	6.6	2.96	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	4,060
SB-27	5/19/2022	0	21.7	0.46	<0.100	<0.0250	<20.0	26.9	26.9	<50.0	26.9	585
		0.83 (10")	5.7	0.18	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	154
SB-28	5/19/2022	0	1.8	0.44	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	581
SB-29	5/19/2022	0	2.1	11.35	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	20,200
SB-30	5/19/2022	0	2.2	11.62	<0.100	<0.0250	<20.0	164	164	145	309	23,700
SB-31	5/19/2022	0	1.3	12.23	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	20,600
SB-32	5/19/2022	0	2.4	13.79	--	--	--	--	--	--	--	23,000
SB-33	5/19/2022	0	2.2	4.35	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	6,830
SB-34	5/19/2022	0	0.8	16.97	--	--	--	--	--	--	--	29,600
	5/20/2022	0.5 (6")	1.7	1.89	--	--	--	--	--	--	--	1,860
SB-35	5/19/2022	0	2	13.04	--	--	--	--	--	--	--	17,400
SB-36	5/19/2022	0	0.9	0.14	--	--	--	--	--	--	--	20.7
		1	0.9	0.19	--	--	--	--	--	--	--	196
SB-37	5/19/2022	0	0.8	0.12	--	--	--	--	--	--	--	34.8
SB-38	5/19/2023	0	0	1.32	--	--	--	--	--	--	--	1,650
SB-39	5/19/2024	0	0	0.25	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	184
SB-40	5/19/2025	0	0.5	0.21	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	99.2
SB-41	5/19/2026	0	0	0.58	--	--	--	--	--	--	--	448



Table 3:  
Summary of Release Characterization Field Screening  
and Laboratory Analytical Results

Devon Energy Production Co  
Seawolf 1-12 CTB 1  
nrm2004262184 and nAPP2125141291

Sample ID	Sample Date	Depth of Sample (feet bgs)	Field Screening		Method 8021B		Method 8015D					Method 300.0
			VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			ppm	mS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Delineation Criteria			--	-	50	10	--	--	--	--	100	600
NMOCD Closure Criteria			--	-	50	10	--	--	1,000	--	2,500	10,000
SB-42	5/19/2027	0	0	0.42	--	--	--	--	--	--	--	192
SB-43	5/19/2028	0	0.2	8.61	--	--	--	--	--	--	--	13,200
SB-44	5/19/2029	0	0.9	0.21	--	--	--	--	--	--	--	127
SB-45	5/19/2030	0	0.2	1.34	--	--	--	--	--	--	--	1,800
SB-46	5/19/2031	0	0	9.59	--	--	--	--	--	--	--	14,400
SB-47	5/19/2022	0	0	20+	--	--	--	--	--	--	--	30,300
		0.5 (6")	3.3	1.93	--	--	--	--	--	--	--	2,750
SB-48	5/20/2022	0	0.5	1.38	--	--	--	--	--	--	--	1,040
SB-49	5/20/2022	0	0.4	10.16	--	--	--	--	--	--	--	16,400
SB-50	5/20/2022	0	0.3	7.26	--	--	--	--	--	--	--	11,800
SB-51	5/20/2022	0	0.6	20+	--	--	--	--	--	--	--	40,600
SB-52	5/20/2022	0	0.6	0.41	--	--	--	--	--	--	--	333
BH53	8/22/2022	0	--	--	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	338
		0.5	--	--	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	45.9
BH54	8/22/2022	0	--	--	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
BH55	8/22/2022	0	--	--	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	63.6
		0.5	--	--	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	33.3
AS08	8/30/2022	0	7.1	0.39	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	523
		0.5 (6")	5.5	0.29	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	398

Notes: NMOCD - New Mexico Oil Conservation Division  
VOC - volatile organic compound  
PID - photoionization detector  
EC - electrical conductivity  
BTEX - benzene, toluene, ethylbenzene, and xylenes  
GRO - gasoline range organics  
DRO - diesel range organics

MRO - motor oil range organics  
TPH - total petroleum hydrocarbons  
mS - millisiemens  
bgs - below grade surface  
ppm - parts per million  
mg/kg - milligram per kilogram  
"--" not applicable or not analyzed



Table 4:  
Summary of Excavation Confirmation  
Laboratory Analytical Results

Devon Energy Production Co  
Seawolf 1-12 CTB 1  
nrm2004262184 and nAPP2125141291

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D					Method 300.0
			BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			50	10	--	--	1,000	--	2,500	10,000
SC-1	7/29/2022	0.75 to 1	<0.100	<0.0250	<20.0	1,380	1,380	599	1,979	25.3
SC-2	7/29/2022	0.75 to 1	<0.100	<0.0250	<20.0	5,990	5,990	2,670	8,660	593
SC-3	7/29/2022	0.75 to 1	2.80	<0.0250	36.3	5,520	5,556	2,290	7,846	1,300
SC-4	7/29/2022	0.75 to 1	0.788	<0.0250	<20.0	4,400	4,400	2,060	6,460	1,680
SC-5	7/29/2022	0 to 1	<0.100	<0.0250	<20.0	94.2	94.2	91.4	185.6	63.3
SC-6	7/29/2022	0 to 1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	360
SC-7	7/29/2022	0 to 1	1.79	<0.0250	28.2	17,800	17,828	10,100	27,928	4,260
SC-8	7/29/2022	0 to 1	<0.100	<0.0250	<20.0	344	344	206	550	182
SC-9	7/29/2022	0.5 to 0.75	0.0611	<0.0250	<20.0	3,430	3,430	1,850	5,280	9,070
SC-10	7/29/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	36.5	36.5	67.9	104.4	92,000
SC-11	7/29/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,490
SC-12	7/29/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	45.1	45.1	72.9	118	2,890
SC-13	7/29/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	7,610
SC-14	7/29/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,780
SC-15	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	428
SC-16	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,520
SC-17	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	996
SC-18	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	69.3
SC-19	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	274	274	163	437	7,840
SC-20	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,630
SC-21	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	117
SC-22	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	22.2
SC-23	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,080
SC-24	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	95.3	95.3	80.3	175.6	34,800
SC-25	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	12,200



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Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D					Method 300.0
			BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			50	10	--	--	1,000	--	2,500	10,000
SC-26	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	6,380
SC-27	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	201
SC-28	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	129
SC-29	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	114
SC-30	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	14,200
SC-31	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,220
SC-32	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	564
SC-33	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	219
SC-34	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,810
SC-35	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	545	545	706	1,251	14,500
SC-36	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	34.2	34.2	<50.0	34.2	14,100
SC-37	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	4,770
SC-38	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	34.7	34.7	<50.0	34.7	857
SC-39	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	59.7
SC-40	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	555
SC-41	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	5,700	5,700	5,100	10,800	6,060
SC-42	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	207	207	306	513	12,100
SC-43	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,370
SC-44	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	78.2
SC-45	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	44.0
SC-46	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	78.7
SC-47	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	62.1
SC-48	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	104
SC-49	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SC-50	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	20.4



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Seawolf 1-12 CTB 1  
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Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D					Method 300.0
			BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			50	10	--	--	1,000	--	2,500	10,000
SC-51	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	271
SC-52	8/4/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	312
SC-53	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	70.8
SC-54	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	28.2	28.2	<50.0	28.2	203
SC-55	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	650
SC-56	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	34.4	34.4	<50.0	34.4	886
SC-57	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	3,720
SC-58	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	731
SC-59	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	875
SC-60	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	487
SC-61	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	48.3	48.3	<50.0	48.3	2,580
SC-62	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	376
SC-63	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	371
SC-64	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	916
SC-65	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	977
SC-66	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	64.8	64.8	51.8	116.6	4,190
SC-67	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	660
SC-68	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	355
SC-69	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	26.4	26.4	<50.0	26.4	980
SC-70	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	477
SC-71	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	944
SC-72	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	875
SC-73	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,370
SC-74	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	723
SC-75	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	34.3	34.3	<50.0	34.3	734



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nrm2004262184 and nAPP2125141291

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D					Method 300.0
			BTEX	Benzene	GRO	DRO	GRO+DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria			50	10	--	--	1,000	--	2,500	10,000
SC-76	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	239
SC-77	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	255
SC-78	8/11/2022	0.5 to 0.75	<0.100	<0.0250	<20.0	81.5	81.5	65.3	146.8	741
SC-79	8/17/2022	0.75 to 1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SC-80	8/17/2022	0.75 to 1	<0.100	<0.0250	<20.0	25.5	25.5	<50.0	25.5	<20.0
SC-81	8/17/2022	0.75 to 1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	26.7
SC-82	8/17/2022	0 to 1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
SC-83	8/17/2022	0 to 1	<0.100	<0.0250	<20.0	31.1	31.1	<50.0	31.1	54.7
SC-84	8/17/2022	0 to 1	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	100

Notes:

NMOCD - New Mexico Oil Conservation Division  
BTEX - benzene, toluene, ethylbenzene, and xylenes  
GRO - gasoline range organics  
DRO - diesel range organics  
MRO - motor oil range organics

TPH - total petroleum hydrocarbons  
bgs - below grade surface  
mg/kg - milligram per kilogram  
"--" not applicable or not analyzed





# APPENDIX A

## CORRESPONDENCE

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NRM2004353184
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@divn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

### Location of Release Source

Latitude 32.077077 Longitude -103.526861  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name SeaWolf 1-12 CTB 1	Site Type Central Tank Battery
Date Release Discovered 1/23/20	API# (if applicable) N/A

Unit Letter	Section	Township	Range	County
C	1	26S	33E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 17.65	Volume Recovered (bbls) 15
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The water dump valve for the Seawolf 86H developed a hole in the housing causing fluid to release onto the pad. All fluids stayed on the pad.

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2004353184
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: <b>This release was not contained within a secondary containment.</b>	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra DeHoyos</u> Signature: <u>Kendra DeHoyos</u> email: <u>kendra.dehoyos@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>2/10/2020</u> Telephone: <u>575-748-3371</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>02/12/2020</u>	

Inputs in blue, Outputs in red

NRM2004353184

## Contaminated Soil measurement

Length(Ft)	Width(Ft)	Depth(Ft)
<u>50</u>	<u>30.000</u>	<u>0.021</u>
Cubic Feet of Soil Impacted		<u>31.500</u>
Barrels of Soil Impacted		<u>5.61</u>
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		<u>0.84</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		0.84

## Free Standing Fluid Only

Length(Ft)	Width(Ft)	Depth(Ft)
<u>50</u>	<u>30.000</u>	<u>0.063</u>
Standing fluid		<u>16.808</u>
<u>Total fluids spilled</u>		<u>17.650</u>

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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2125141291
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-578-6195
Contact email Wesley.Mathews@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Arteisa, NM 88210	

### Location of Release Source

Latitude 32.076939 Longitude -103.526632  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Seawolf 1-12 CTB 1	Site Type Oil
Date Release Discovered 8/20/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	1	26S	33E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5.99 BBLS	Volume Recovered (bbls) 5 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Pin hole leak on water dump line.

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: <b>Spill was not in containment.</b>	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <b>Kendra DeHoyos</b>	Title: <b>EHS Associate</b>
Signature: <u>Kendra DeHoyos</u>	Date: <u>9/8/2021</u>
email: <u>Kendra.DeHoyos@dvn.com</u>	Telephone: <u>575-748-0167</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>9/12/2021</u>

NAPP2125141291

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>30</u>	<u>32.000</u>	<u>0.021</u>
Cubic Feet of Soil Impacted		<u>20.160</u>
Barrels of Soil Impacted		<u>3.59</u>
Soil Type		<u>Clay</u>
Barrels of Oil Assuming 100% Saturation		<u>0.36</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>0.36</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>26</u>	<u>29.000</u>	<u>0.042</u>
Standing fluid		<u>5.632</u>
<b><u>Total fluids spilled</u></b>		<b><u>5.992</u></b>

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 47100

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 47100
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	9/12/2021



Incident ID	nrm2004353184
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?	<u>&gt;55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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Printed Name: Dale Woodall Title: Env. ProfessionalSignature: Dale Woodall Date: 1/24/2023email: Dale.Woodall@dvn.com Telephone: 575-748-1838**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nrm2004353184
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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/24/2023  
email: Dale.Woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 1/24/2023

email: Dale.Woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/24/2023  
email: Dale.Woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Jennifer Nobui Date: 02/14/2023

**Heather Woods**

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Sent:** Wednesday, July 27, 2022 8:10 AM  
**To:** Heather Woods  
**Cc:** Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** FW: [EXTERNAL] Confirmation Sampling Notification - Seawolf 1-12 CTB 1 (nAPP2102637490, nAPP2125141291, nAPP2004353184)

Heather

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
**Sent:** Wednesday, July 27, 2022 8:03 AM  
**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>  
**Subject:** Fw: [EXTERNAL] Confirmation Sampling Notification - Seawolf 1-12 CTB 1 (nAPP2102637490, nAPP2125141291, nAPP2004353184)

---

**From:** Heather Woods <[Heather.Woods@soudermiller.com](mailto:Heather.Woods@soudermiller.com)>  
**Sent:** Tuesday, July 26, 2022 2:55 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Cc:** Woodall, Dale <[Dale.Woodall@dmv.com](mailto:Dale.Woodall@dmv.com)>; Ashley Maxwell <[ashley.maxwell@soudermiller.com](mailto:ashley.maxwell@soudermiller.com)>; Sara McNallen <[sara.mcnaullen@soudermiller.com](mailto:sara.mcnaullen@soudermiller.com)>; Georgeann Goodman <[Georgeann.Goodman@soudermiller.com](mailto:Georgeann.Goodman@soudermiller.com)>  
**Subject:** [EXTERNAL] Confirmation Sampling Notification - Seawolf 1-12 CTB 1 (nAPP2102637490, nAPP2125141291, nAPP2004353184)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

Souder, Miller & Associates will be on location at the Seawolf 1-12 CTB 1 (nAPP2102637490, nAPP2125141291, nAPP2004353184) beginning on Thursday, July 28<sup>th</sup> at 10:00am and continuing through Friday, July 29<sup>th</sup> as needed to perform confirmation sampling of the ongoing excavation. Please let me know if you have any questions.

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](http://www.soudermiller.com)



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## Heather Woods

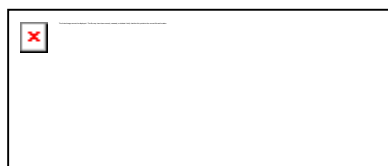
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**From:** Sarahmay Schlea  
**Sent:** Tuesday, August 2, 2022 11:34 AM  
**To:** Woodall, Dale; Enviro, OCD, EMNRD; Heather Woods; Ashley Maxwell  
**Cc:** Georgeann Goodman

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**



[www.soudermiller.com](http://www.soudermiller.com)

**Sarahmay Schlea**  
*Staff Scientist I*  
(she/her)

Direct/Mobile: [330-958-5689](tel:330-958-5689)  
Office: [575-449-2758](tel:575-449-2758)

[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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**Heather Woods**

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**From:** Sarahmay Schlea  
**Sent:** Tuesday, August 9, 2022 5:04 PM  
**To:** Woodall, Dale; Enviro, OCD, EMNRD; Heather Woods; Ashley Maxwell  
**Cc:** 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 Thursday, August 11, beginning at 9:00am, to conduct confirmation sampling at the SeaWolf 1-12 CTB 1 (napp2208340802, napp2102637490, napp2133355460, napp2125141291, napp2106443694) located at 32.07917228, -103.52616097. Please consider this your 48-hour notification.

Many Thanks,  
Sarahmay Schlea



**Stronger Communities by Design**



[www.soudermiller.com](http://www.soudermiller.com)

**Sarahmay Schlea**

*Staff Scientist I*  
(she/her)

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

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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**Heather Woods**

---

**From:** Heather Woods  
**Sent:** Monday, August 15, 2022 12:14 PM  
**To:** 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](http://www.soudermiller.com)



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# APPENDIX B

## WATER WELL DATA



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02294</a>	CUB	LE		4	4	3	11	26S	33E	637465	3547003	200	145	55
<a href="#">C 02295</a>	CUB	LE		2	2	4	12	26S	33E	639865	3547624	250	200	50
<a href="#">C 04628 POD1</a>	CUB	LE		1	1	2	01	26S	33E	639121	3550219			

Average Depth to Water: **172 feet**

Minimum Depth: **145 feet**

Maximum Depth: **200 feet**

**Record Count:** 3

**PLSS Search:**

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

**Township:** 26S

**Range:** 33E

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

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4628			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 4	SECONDS 46.64	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	31	34.28	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NE Sec.1 T26S R33S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/9/2022		DRILLING ENDED 6/9/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/13/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

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

FILE NO. C-4628-POD 1	POD NO. 1	TRN NO. 726182
LOCATION 26.33.01.112	WELL TAG ID NO.	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, Fine-grained, poorly graded, unconsolidated 7.5 YR 5/4, Brown	Y    ✓ N	
	4	14	10	Sand, Fine-grained, poorly graded, semi-consolidated 7.5 YR 5/4, Brown	Y    ✓ N	
	14	19	5	Limestone, consolidated 10 YR 7/4. Pale Brown	Y    ✓ N	
	19	55	36	Sand, Fine-grained, poorly graded, 7.5 YR 6/8, Reddish Yellow	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):                      0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 27 Seawolf 1-12 CTB 1	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 40%;">             Jackie D. Atkins         </div> <div style="width: 30%; text-align: right;">           6/16/2022         </div> <div style="width: 30%;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</span> <span>DATE</span> </div>	
--------------	---	--

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,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral  
(575) 622-6521

drywell





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

June 8, 2022

DII-NMOSE  
1900 W 2<sup>nd</sup> 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](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DIV JUN 16 2022 PM 3:11



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02291</a>		CUB	LE	1	1	2	06	26S	34E	640825	3550140*	220	160	60
<a href="#">C 02292 POD1</a>		CUB	LE	4	1	2	06	26S	34E	640992	3549987	200	140	60
<a href="#">C 03441 POD1</a>		C	LE	4	1	2	06	26S	34E	640971	3550039	250		
<a href="#">C 03442 POD1</a>		C	LE	4	1	2	06	26S	34E	641056	3550028	251		

Average Depth to Water: **150 feet**

Minimum Depth: **140 feet**

Maximum Depth: **160 feet**

**Record Count:** 4

**PLSS Search:**

**Section(s):** 6, 7

**Township:** 26S

**Range:** 34E

\*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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No records found.

**PLSS Search:**

**Section(s):** 31

**Township:** 25S

**Range:** 34E

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

---

No records found.

**PLSS Search:**

**Section(s):** 35, 36

**Township:** 25S

**Range:** 33E

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# APPENDIX C

## FIELD NOTES AND PHOTOGRAPH LOG

 <b>Field Screening</b>									
Location Name: <b>Seawolf 1-12 CT61</b>		Date: <b>5/19/2022</b>							
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:	
SB22@0'	0001	19.55		417	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB23@0'	0002	5.11		20.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB22@1'	0000	2.1		2394	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB23@10"	0011	1.72		12.3	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	refusal on caliche rock	
SB22@1.25'	0016	4.48		932	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	refusal on caliche rock	
SB24@0'	0018	0.22		8.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB25@0'	0020	12.31		26.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB25@1'	0029	1.59		15.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	refusal	
SB24@1'	0031	0.11		6.1	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	refusal	

 <b>Field Screening</b>									
Location Name: Sawolf 1-12 CTB1		Date: 5/19/22							
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color		Primary Soil Type	Moisture Level	Other Remarks/Notes:
SB2600	0833	18.1		4.4	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB2700	0835	0.46		21.7	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB2601	0842	2.96		6.6	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	refusal
SB27010	0847	0.18		5.7	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	refusal
SB2800	0955	0.44		1.8	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB2900	0958	11.35		2.1	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB3000	1000	11.62		2.2	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB3100	1003	12.23		1.3	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB3200	1124	13.79		2.4	Light Tan Gray Yellow	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	


③




## Field Screening

Location Name: Sawolk 1-12 CTB 1					Date: 5/19/2022				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:	
SB3300	1120	4.35		2.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB3400	1129	16.97		0.8	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB3500	1131	13.04		2.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB3600'	1154	0.14		0.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
SB3601'	1204	0.19		0.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	refused	
					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		
					Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet		



 <b>Field Screening</b>									
Location Name: Sawolf 1-12 CTB 1		Date: 5/20/2022							
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color		Primary Soil Type	Moisture Level	Other Remarks/Notes:
SB3700'	0920	0.12		0.0	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB3800'	0922	1.32		0.0	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB3900'	0926	0.25		0.0	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4000'	0932	0.21		0.5	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4100'	0935	0.50		0.0	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4200'	0938	0.42		0.0	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4300'	0940	8.61		0.2	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4400'	1012	0.21		0.9	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	
SB4500'	1015	1.34		0.2	Light Tan	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet	

 <b>Field Screening</b>									
Location Name: Seawolf 1-12 CTB 1		Date: 5/20/2022							
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:	
SB4620	1017	9.59		0.0	Light Tan Gray Yellow	Gravel Sand Clay	Dry Moist Wet		
SB4720	1019	20+		0.0	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet		
SB34@6"	1103	1.89		1.7	Light Tan Gray Yellow	Gravel Sand Clay	Dry Moist Wet	refused	
SB4820	1113	1.38		0.5	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet		
SB4920	1116	10.16		0.4	Light Tan Gray Yellow	Gravel Sand Clay	Dry Moist Wet		
SB5020	1117	7.26		0.3	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet		
SB47@6"	1146	1.93		3.3	Light Tan Gray Yellow	Gravel Sand Clay	Dry Moist Wet	refused	
SB5120	1148	20+		0.6	Dark Brown Olive Red	Gravel Sand Clay	Dry Moist Wet		
SB5220	1149	0.41		0.6	Light Tan Gray Yellow	Gravel Sand Clay	Dry Moist Wet		



# Field Screening

Location Name: <u>Seawolf 1-12 CTB1</u>				Date: <u>8/30/2022</u>				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
NRE01	0906	9.13	25.0	2.7	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE02	0908	10.01	24.8	4.7	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE03	0909	6.21	24.2	0.2	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE04	0910	4.24	24.4	7.0	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE05	0911	6.60	24.5	4.7	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE06	0912 <del>0912</del>	4.31	24.5	1.6	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE08	0916 <del>0916</del>	6.94	24.6	0.0	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE09	<del>0916</del> 0916 0917	6.47 <del>10.09</del>	24.4	0.0	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	
NRE10	0918 <del>0918</del>	10.33	24.5	0.0	Light Tan Dark Brown Gray Olive Yellow Red	Gravel Sand Rock Silt Clay	Dry Moist Wet	



# Field Screening



Location Name: Sawtooth 1-12 CTB1				Date: 8/30/2022				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
NRE11	0919	11.89	24.5	0.8	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE12	0920	12.01	24.4	1.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE13	0921	4.78	24.5	1.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE14	0922	7.61	24.5	1.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE15	0923	4.80	24.5	0.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE16	0924	8.75	24.2	0.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRE07	0915	9.91	24.5	0.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS1 @1	0950	1.88	24.5	7.7	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS2 @1	0955	4.02	24.6	7.2	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	



## Field Screening

Location Name: Seawolf 1-12 CTBI

Date: Aug 30 2022

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
AS3 @ 1	1002	1.08	24.4	8.7	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS4 @ 1	1008	1.26	24.8	9.1	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS5 @ 1	1012	0.62	24.7	6.3	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS6 @ 0	1022	0.26	24.8	3.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS7 @ 0	1028	0.14	24.7	4.1	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS6 @ 8	1025	0.14	24.7	3.6	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS7 @ 8	1031	0.09	24.6	4.7	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS8 @ 0	1033	0.39	24.4	7.1	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS8 @ 8	1035	0.29	24.7	5.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	





# Field Screening

Location Name: Sawtooth CTBI

Date: Aug 30 2022

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
NRW 1 @ 0	11:17	9.53	25.3	12.8	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRW 2 @ 0	11:19	7.65	25.3	12.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRW 3 @ 0	11:20	6.07	25.4	12.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
NRW 4 @ 0	11:21	6.51	25.4	10.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS 9 @ 8	11:16 <del>11:18</del>	0.17	25.4	9.4	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS 10 @ 8	11:18 <del>11:20</del>	0.15	25.4	8.9	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS 11 @ 8	11:23 <del>11:24</del>	2.56	25.4	18.5	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS 12 @ 0	11:24	3.46	25.3	11.7	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	
AS 12 @ 4	11:26 11:28	0.29 0.28	25.3 25.4	7.3 10.0	Light Tan Gray Yellow Dark Brown Olive Red	Gravel Sand Clay Rock Silt Clay	Dry Moist Wet	

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



Photograph #1	A photograph of a desert landscape with sandy ground and sparse vegetation. In the background, a pickup truck is parked. Overlaid on the image are various data points: UTC: 2022.07.29T17:22:32Z, Lat, Lon: 32.07682, -103.527067, Alt: 995m MSL WGS84, CEP: 15m, Azimuth and Bearing: 326° N55W, and two vertical angle scales on the left and right sides. The left scale shows +5°, 1.6°, and 0°. The right scale shows -30°, -15.2°, -15°, and 0°. A horizontal scale at the bottom shows W and NW markers.
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing northwest, view of sample areas SC-01 and SC-02.



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



Photograph #2	A photograph of an industrial site with several large, dark-colored pipes laid out on a sandy, gravelly ground. In the background, a white pickup truck is parked. The sky is clear and blue. Overlaid on the image is technical data: UTC: 2022.07.29T17:22:48Z, Lat, Lon: 32.076817, -103.527106, Alt: 986m MSL WGS84, CEP: 14m. A compass overlay shows an Azimuth and Bearing of 280° N9W. Two vertical angle scales are present: one on the left with markings at +5°, 1.6°, and 0°, and one on the right with markings at -30°, -15°, -13.1°, and 0°. A horizontal orientation scale at the bottom shows SW, W, and NW markers, with W being the central focus.
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing west, view of sample areas SC-03 and SC-04.



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



Photograph #3	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing southeast, view of the excavation area around the separators.

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



Photograph #4	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing east, view of the excavation area around the separators.



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



Photograph #5	<p>UTC: 2022.07.29T17:24:04Z Lat, Lon: 32.07662, -103.527251 Alt: 984m MSL WGS84 CEP: 5m</p> <p>Azimuth and Bearing 75° N74E</p> <p>-3.8°</p> <p>-20.4°</p> <p>NE E</p>
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing east-northeast, view of the excavation area around the separators.

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



Photograph #6	<p>UTC: 2022.07.29T17:24:16Z  Lat, Lon: 32.076568, -103.527249  Alt: 986m MSL WGS84  CEP: 5m</p> <p>Azimuth and Bearing  61° N61E</p> <p>Compass rose showing NE and E directions.</p>
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing east-northeast, view of the excavation area around the separators.



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



Photograph #7	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing north, view of the excavation area around the separators.

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



Photograph #8	A photograph of an industrial site showing an excavation area around large cylindrical separators. The ground is sandy and uneven. A large horizontal pipe runs across the foreground. In the background, there are more pipes and structural elements. Overlaid on the image is a compass rose showing an azimuth of 16° N16E. A vertical scale on the right side of the image shows angles from -45° to -15°. A horizontal scale at the bottom shows directions N and NE. Text in the top left corner of the image provides metadata: UTC: 2022.07.29T17:24:33Z, Lat, Lon: 32.076544, -103.527205, Alt: 986m MSL WGS84, CEP 5m. A small vertical scale on the left side of the image shows angles from 0° to -5°.
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: July 29, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing north, view of the excavation area around the separators.




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



Photograph #9	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of the excavation area around the separators.


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



Photograph #10	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of the excavation area around the separators.

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



Photograph #11	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of the excavation area around the separators.



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



Photograph #12	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of the excavation area around the separators.

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



Photograph #13	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of the excavation area around the separators.



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



Photograph #14	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north, view of the excavation area around the separators.



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



Photograph #15	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north, view of the excavation area around the separators.



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



Photograph #16	A photograph of industrial equipment, specifically two large, light-colored cylindrical separators, with a compass overlay at the top. The compass shows cardinal directions (NW, N, NE, E) and degrees (300, 330, 0, 30, 60, 90). Below the compass, a text overlay provides coordinates: 8°N (T), 32.076528°N, 103.526830°W ±13ft, and an elevation of 3331ft. The photograph shows the separators on a dirt ground with various pipes and valves. A timestamp in the bottom right corner reads "08/04/2022, 11:11:31 MDT".
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north, view of the excavation area around the separators.



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



Photograph #17	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing west-northwest, view of the excavation area south of the separator manifold.



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



Photograph #18	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 4, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing west-northwest, view of the excavation area south of the separator manifold.

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



Photograph #19	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 17, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing south, view of sample areas SC-53 through SC-78.



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




Photograph #20	
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 17, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing east, view of sample areas SC-79 through SC-84.



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



Photograph #21	 <p>SW W NW N</p> <p>210 240 270 300 330 0</p> <p>☀ 295°NW (T) ● 32.076830°N, 103.527128°W ±13ft ▲ 3333ft</p> <p>08/17/2022 08:10:58 MDT</p>
Client: Devon Energy	
Site Name: Seawolf 1-12 CTB 1	
Date Photo Taken: August 17, 2022	
Release Location: -103.5266320W, 32.0769390N  1 T: 26S R: 33E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing west-northwest, view of sample areas SC-80 through SC-82 and SC-84.

# 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 courier 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



Report to:  
Ashley Maxwell



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 CTB 1

Work Order: E205121

Job Number: 01058-0007

Received: 5/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/1/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 6/1/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E205121  
Date Received: 5/23/2022 5:24:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2022 5:24:00PM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 06/01/22 15:03
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB20 @ 0'	E205121-01A	Soil	05/17/22	05/23/22	Glass Jar, 4 oz.
SB20 @ 2.25'	E205121-02A	Soil	05/17/22	05/23/22	Glass Jar, 4 oz.
SB21 @ 0'	E205121-03A	Soil	05/17/22	05/23/22	Glass Jar, 4 oz.
SB21 @ 1'	E205121-04A	Soil	05/17/22	05/23/22	Glass Jar, 4 oz.
SB21 @ 2'	E205121-05A	Soil	05/17/22	05/23/22	Glass Jar, 4 oz.
SB22 @ 0'	E205121-06A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB22 @ 1'	E205121-07A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB22 @ 1.25'	E205121-08A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB23 @ 0'	E205121-09A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB23 @ 10"	E205121-10A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB24 @ 0'	E205121-11A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB24 @ 1'	E205121-12A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB25 @ 0'	E205121-13A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB25 @ 1'	E205121-14A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB26 @ 0'	E205121-15A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB26 @ 1'	E205121-16A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB27 @ 0'	E205121-17A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB27 @ 10"	E205121-18A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB28 @ 0'	E205121-19A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB29 @ 0'	E205121-20A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

## SB20 @ 0'

## E205121-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	33.3	20.0	1	05/26/22	05/31/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

## SB20 @ 2.25'

## E205121-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.9 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>	106 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	ND	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB21 @ 0'

E205121-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	50.6	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	172	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB21 @ 1'

E205121-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	ND	20.0	1	05/26/22	06/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB21 @ 2'

E205121-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.8 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	ND	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB22 @ 0'

E205121-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	0.304	0.250	10	05/26/22	05/28/22	
Ethylbenzene	3.35	0.250	10	05/26/22	05/28/22	
Toluene	7.95	0.250	10	05/26/22	05/28/22	
o-Xylene	7.53	0.250	10	05/26/22	05/28/22	
p,m-Xylene	24.6	0.500	10	05/26/22	05/28/22	
Total Xylenes	32.1	0.250	10	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	350	200	10	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.1 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	44200	500	20	05/27/22	05/31/22	
Oil Range Organics (C28-C36)	41200	1000	20	05/27/22	05/31/22	
<i>Surrogate: n-Nonane</i>						
		294 %	50-200	05/27/22	05/31/22	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	28300	2000	100	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB22 @ 1'

E205121-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	1.23	0.0500	2	05/26/22	06/01/22	
Ethylbenzene	7.53	0.0500	2	05/26/22	06/01/22	
Toluene	22.5	0.0500	2	05/26/22	06/01/22	
o-Xylene	14.7	0.0500	2	05/26/22	06/01/22	
p,m-Xylene	48.4	0.100	2	05/26/22	06/01/22	
Total Xylenes	63.1	0.0500	2	05/26/22	06/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	05/26/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	897	40.0	2	05/26/22	06/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		112 %	70-130	05/26/22	06/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	7880	500	20	05/27/22	05/31/22	
Oil Range Organics (C28-C36)	1940	1000	20	05/27/22	05/31/22	
<i>Surrogate: n-Nonane</i>						
		333 %	50-200	05/27/22	05/31/22	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	2980	100	5	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB22 @ 1.25'

E205121-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	0.792	0.250	10	05/26/22	05/31/22	
Ethylbenzene	6.99	0.250	10	05/26/22	05/31/22	
Toluene	18.4	0.250	10	05/26/22	05/31/22	
o-Xylene	15.4	0.250	10	05/26/22	05/31/22	
p,m-Xylene	48.6	0.500	10	05/26/22	05/31/22	
Total Xylenes	64.0	0.250	10	05/26/22	05/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/26/22	05/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	744	200	10	05/26/22	05/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	05/26/22	05/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	20900	250	10	05/27/22	05/31/22	
Oil Range Organics (C28-C36)	6340	500	10	05/27/22	05/31/22	
<i>Surrogate: n-Nonane</i>						
		447 %	50-200	05/27/22	05/31/22	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	6520	200	10	05/26/22	06/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB23 @ 0'

E205121-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/31/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/31/22	
Toluene	ND	0.0250	1	05/26/22	05/31/22	
o-Xylene	ND	0.0250	1	05/26/22	05/31/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/31/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/31/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/26/22	05/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/31/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		05/26/22	05/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	72.8	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	117	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	8020	200	10	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

## SB23 @ 10"

## E205121-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	2740	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB24 @ 0'

E205121-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222054
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222054
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2222081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2222065
Chloride	106	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB24 @ 1'

E205121-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	42.8	20.0	1	05/26/22	06/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB25 @ 0'

E205121-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.5 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	34.8	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	25900	2000	100	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB25 @ 1'

E205121-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	30.0	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	2510	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB26 @ 0'

E205121-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.2 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	73.7	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	84.4	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	32500	2000	100	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

## SB26 @ 1'

## E205121-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	4060	100	5	05/26/22	06/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB27 @ 0'

E205121-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	26.9	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	585	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB27 @ 10"

E205121-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222054
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2222054
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.1 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2222081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2222065
Chloride	154	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB28 @ 0'

E205121-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	581	20.0	1	05/26/22	06/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 3:03:55PM

SB29 @ 0'

E205121-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2222081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222065	
Chloride	20200	1000	50	05/26/22	06/01/22	





## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 3:03:55PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

## 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
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## Blank (2222054-BLK1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

## LCS (2222054-BS1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	4.92	0.0250	5.00		98.5	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.6	70-130			
Toluene	4.81	0.0250	5.00		96.1	70-130			
o-Xylene	4.75	0.0250	5.00		94.9	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

## LCS Dup (2222054-BS1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	5.06	0.0250	5.00		101	70-130	2.76	20	
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130	2.97	20	
Toluene	4.94	0.0250	5.00		98.9	70-130	2.83	20	
o-Xylene	4.90	0.0250	5.00		97.9	70-130	3.12	20	
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130	3.02	20	
Total Xylenes	14.6	0.0250	15.0		97.5	70-130	3.05	20	
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	6/1/2022 3:03:55PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2222054-BLK1)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

## LCS (2222054-BS2)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

## LCS Dup (2222054-BSD2)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0		103	70-130	3.47	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	6/1/2022 3:03:55PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2222081-BLK1)

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

## LCS (2222081-BS1)

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	522	25.0	500		104	38-132			
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			

## Matrix Spike (2222081-MS1)

Source: E205121-04

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	522	25.0	500	ND	104	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

## Matrix Spike Dup (2222081-MSD1)

Source: E205121-04

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	518	25.0	500	ND	104	38-132	0.631	20	
Surrogate: n-Nonane	48.9		50.0		97.9	50-200			



QC Summary Data

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	6/1/2022 3:03:55PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2222065-BLK1)					Prepared: 05/26/22 Analyzed: 05/31/22				
Chloride	ND	20.0							
LCS (2222065-BS1)					Prepared: 05/26/22 Analyzed: 05/31/22				
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2222065-MS1)					Source: E205121-01		Prepared: 05/26/22 Analyzed: 05/31/22		
Chloride	284	20.0	250	33.3	100	80-120			
Matrix Spike Dup (2222065-MSD1)					Source: E205121-01		Prepared: 05/26/22 Analyzed: 06/01/22		
Chloride	280	20.0	250	33.3	98.6	80-120	1.39	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

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	06/01/22 15:03

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





## Project Information

## Chain of Custody

Page 1 of 5

**5-day**

<b>Client:</b> <u>Souder, Miller &amp; Associates</u> <b>Project:</b> <u>Seawulf 1-12 CTB 1</u> <b>Project Manager:</b> <u>Ashley Maxwell</u> <b>Address:</b> <u>201 S. Haldagueno</u> <b>City, State, Zip:</b> <u>Carlsbad, NM 88220</u> <b>Phone:</b> <u>(505) 320-0975</u> <b>Email:</b> <u>Ashley_Maxwell@soudermiller.com</u> <b>Report due by:</b>					<b>Bill To</b> <b>Attention:</b> <u>Devon</u> <b>Address:</b> <u>Seawulf</u> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>WO #</b> <u>20907302</u>					<b>Lab Use Only</b> <b>Lab WO#</b> <u>PE205121</u> <b>Job Number</b> <u>01058-0007</u> <b>Analysis and Method</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>DR108 by CRO/DO</b>  <b>GRO/DO by 8015</b>  <b>BTEX by 8021</b>  <b>VOC by 8260</b>  <b>Metals 6010</b>  <b>Chloride 300.0</b> </div> <div style="width: 45%;"> <b>MM - DOC</b>  <b>BD DOC - TX</b> </div> </div>					<b>EPA Program</b> <b>1D 3D</b> <b>RCRA CWA SDWA</b> <b>State</b> <b>NM CO UT AZ</b> <b>TX OK</b> <b>Remarks</b>				
---	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DR108 by CRO/DO	GRO/DO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	MM - DOC	BD DOC - TX	Remarks
1300	5/17/22	Soil	1	SB20@0'	1							X		
1323	5/17/22	Soil	1	SB20@2.25'	2							X		
1326	5/17/22	Soil	1	SB21@0'	3							X		
1334	5/17/22	Soil	1	SB21@1'	4							X		
1337	5/17/22	Soil	1	SB21@2'	5							X		
0801	5/19/22	Soil	1	SB22@0'	6							X		
0806	5/19/22	Soil	1	SB22@1'	7							X		
0816	5/19/22	Soil	1	SB22@1.25'	8							X		
0802	5/19/22	Soil	1	SB23@0'	9							X		
0811	5/19/22	Soil	1	SB23@10"	10							X		

**Additional Instructions:**

(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days

Relinquished by: (Signature) <u>Heath M. W.</u>	Date <u>5/23/22</u>	Time <u>1711</u>	Received by: (Signature) <u>Devon</u>	Date <u>5/23/22</u>	Time <u>1724</u>	<b>Lab Use Only</b> <b>Received on ice:</b> <u>Y</u> / N <b>T1</b> _____ <b>T2</b> _____ <b>T3</b> _____ <b>AVG Temp °C</b> <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA \_\_\_\_\_

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

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## Project Information

## Chain of Custody

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Client: <u>Souder, Miller &amp; Associates</u> Project: <u>Seawall 1-12 CTB1</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. Haldaguena</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(505) 320-8975</u> Email: <u>SaAshley.Maxwell@soudermiller.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: WO # <u>20987302</u>					Lab Use Only Lab WO# <u>PE205121</u> Job Number <u>01058-0007</u>		TAT 1D 3D		EPA Program RCRA CWA SDWA			
Analysis and Method										State							
STB by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0										NM TX		CO OK		UT AZ			
										Remarks							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number												
0818	5/19/22	Soil	1	SB24@0'	11							X					
0831	5/19/22	Soil	1	SB24@1'	12							X					
0820	5/19/22	Soil	1	SB25@0'	13							X					
0829	5/19/22	Soil	1	SB25@1'	14							X					
0833	5/19/22	Soil	1	SB26@0'	15							X					
0842	5/19/22	Soil	1	SB26@1'	16							X					
0835	5/19/22	Soil	1	SB27@0'	17							X					
0847	5/19/22	Soil	1	SB27@10"	18							X					
0955	5/19/22	Soil	1	SB28@0'	19							X					
0958	5/19/22	Soil	1	SB29@0'	20							X					
Additional Instructions:																	
(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 4 °C on subsequent days							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>Y</u> / <u>N</u>					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

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## Envirotech Analytical Laboratory

Printed: 5/24/2022 1:33:24PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	05/23/22 17:24	Work Order ID:	E205121
Phone:	(505) 325-7535	Date Logged In:	05/24/22 11:08	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	05/31/22 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Heather WoodComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Maxwell



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: E205122

Job Number: 01058-0007

Received: 5/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/1/22

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: 6/1/22



Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220

Project Name: Seawolf 1-12 CTB 1  
Workorder: E205122  
Date Received: 5/23/2022 5:24:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2022 5:24:00PM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 06/01/22 14:30
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB30 @ 0'	E205122-01A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB31 @ 0'	E205122-02A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB32 @ 0'	E205122-03A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB33 @ 0'	E205122-04A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB34 @ 0'	E205122-05A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB35 @ 0'	E205122-06A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB36 @ 0'	E205122-07A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB36 @ 1'	E205122-08A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB37 @ 0'	E205122-09A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB38 @ 0'	E205122-10A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB39 @ 0'	E205122-11A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB40 @ 0'	E205122-12A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB41 @ 0'	E205122-13A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB42 @ 0'	E205122-14A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB43 @ 0'	E205122-15A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB44 @ 0'	E205122-16A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB45 @ 0'	E205122-17A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB46 @ 0'	E205122-18A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB47 @ 0'	E205122-19A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.
SB47 @ 6"	E205122-20A	Soil	05/19/22	05/23/22	Glass Jar, 4 oz.



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 2:30:25PM

SB30 @ 0'

E205122-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2222082	
Diesel Range Organics (C10-C28)	164	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	145	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	23700	2000	100	05/26/22	05/31/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 2:30:25PM

SB31 @ 0'

E205122-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.1 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.8 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2222082	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/28/22	
<i>Surrogate: n-Nonane</i>	100 %	50-200		05/27/22	05/28/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	20600	1000	50	05/26/22	05/31/22	





Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB32 @ 0'

E205122-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	23000	2000	100	05/26/22	05/31/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 2:30:25PM

SB33 @ 0'

E205122-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2222082	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/29/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	05/27/22	05/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	6830	200	10	05/26/22	05/31/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB34 @ 0'

E205122-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	29600	2000	100	05/26/22	05/31/22	



Sample Data

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	6/1/2022 2:30:25PM

SB35 @ 0'  
E205122-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2222066
Chloride	17400	2000	100	05/26/22	06/01/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB36 @ 0'

E205122-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	20.7	20.0	1	05/26/22	05/31/22	





Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB36 @ 1'  
E205122-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	196	20.0	1	05/26/22	05/31/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB37 @ 0'

E205122-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	34.8	20.0	1	05/26/22	05/31/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB38 @ 0'  
E205122-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	1650	20.0	1	05/26/22	05/31/22	

## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 2:30:25PM

SB39 @ 0'

E205122-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.6 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2222082	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/29/22	
<i>Surrogate: n-Nonane</i>	106 %	50-200		05/27/22	05/29/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	184	20.0	1	05/26/22	05/31/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
6/1/2022 2:30:25PM

SB40 @ 0'

E205122-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Benzene	ND	0.0250	1	05/26/22	05/28/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/28/22	
Toluene	ND	0.0250	1	05/26/22	05/28/22	
o-Xylene	ND	0.0250	1	05/26/22	05/28/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/28/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2222053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		05/26/22	05/28/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2222082	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/22	05/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/22	05/29/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/27/22	05/29/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	99.2	20.0	1	05/26/22	05/31/22	





Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB41 @ 0'

E205122-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	448	20.0	1	05/26/22	05/31/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB42 @ 0'

E205122-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	192	20.0	1	05/26/22	05/31/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB43 @ 0'

E205122-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	13200	200	10	05/26/22	06/01/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB44 @ 0'

E205122-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	127	20.0	1	05/26/22	06/01/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB45 @ 0'

E205122-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	1800	20.0	1	05/26/22	06/01/22	





Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB46 @ 0'  
E205122-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	14400	400	20	05/26/22	06/01/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB47 @ 0'  
E205122-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	30300	2000	100	05/26/22	06/01/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 6/1/2022 2:30:25PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB47 @ 6"

E205122-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222066	
Chloride	2750	20.0	1	05/26/22	06/01/22	



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	6/1/2022 2:30:25PM

## 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
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## Blank (2222053-BLK1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

## LCS (2222053-BS1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130			
Toluene	4.81	0.0250	5.00		96.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.41	0.0500	10.0		94.1	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

## LCS Dup (2222053-BSD1)

Prepared: 05/26/22 Analyzed: 05/31/22

Benzene	5.10	0.0250	5.00		102	70-130	3.16	20	
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130	3.05	20	
Toluene	4.96	0.0250	5.00		99.2	70-130	3.19	20	
o-Xylene	4.89	0.0250	5.00		97.7	70-130	3.03	20	
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130	2.96	20	
Total Xylenes	14.6	0.0250	15.0		97.2	70-130	2.99	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	6/1/2022 2:30:25PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2222053-BLK1)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

## LCS (2222053-BS2)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

## LCS Dup (2222053-BSD2)

Prepared: 05/26/22 Analyzed: 05/31/22

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130	1.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			





## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	6/1/2022 2:30:25PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2222082-BLK1)

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			

## LCS (2222082-BS1)

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	514	25.0	500		103	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

## Matrix Spike (2222082-MS1)

Source: E205112-02

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	1310	125	500	777	107	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

## Matrix Spike Dup (2222082-MSD1)

Source: E205112-02

Prepared: 05/27/22 Analyzed: 05/28/22

Diesel Range Organics (C10-C28)	1400	125	500	777	124	38-132	6.22	20	
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			



QC Summary Data

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	6/1/2022 2:30:25PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2222066-BLK1)					Prepared: 05/26/22 Analyzed: 05/31/22				
Chloride	ND	20.0							
LCS (2222066-BS1)					Prepared: 05/26/22 Analyzed: 05/31/22				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2222066-MS1)					Source: E205122-01		Prepared: 05/26/22 Analyzed: 05/31/22		
Chloride	20600	2000	250	23700	NR	80-120			M4
Matrix Spike Dup (2222066-MSD1)					Source: E205122-01		Prepared: 05/26/22 Analyzed: 05/31/22		
Chloride	16300	2000	250	23700	NR	80-120	22.9	20	M4, R3

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	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	06/01/22 14:30

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.

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.



## Project Information

## Chain of Custody

Page 3 of 5

Client: <u>Souder Miller &amp; Associates</u> Project: <u>Seawolf 1-12 CTB 1</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. Haldenue</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(505) 320-6975</u> Email: <u>Ashley.Maxwell@soudermiller.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: WO# <u>20987302</u>					Lab Use Only Lab WO# <u>PE205122</u> Job Number <u>01058-008</u> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM - 3000C TX - 3000C					TAT 1D 3D		EPA Program RCRA CWA SDWA		
												State NM CO UT AZ TX OK							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number												Remarks		
1000	5/19/22	Soil	1	SB30@0'	1								X						
1003	5/19/22	Soil	1	SB31@0'	2								X						
1124	5/19/22	Soil	1	SB32@0'	3								X						
1126	5/19/22	Soil	1	SB33@0'	4								X						
1129	5/19/22	Soil	1	SB34@0'	5								X						
1131	5/19/22	Soil	1	SB35@0'	6								X						
1154	5/19/22	Soil	1	SB36@0'	7								X						
1204	5/19/22	Soil	1	SB36@1'	8								X						
0920	5/24/22	Soil	1	SB37@0'	9								X						
0922	5/24/22	Soil	1	SB36@0'	10								X						
Additional Instructions:																			
(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>Y</u> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

envirotech

## Project Information

## Chain of Custody

Page 4 of 5

Client: <u>Sawyer, Miller &amp; Associates</u> Project: <u>Sawgitt 1-12 CTB I</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. Haldagueno</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(505) 320-8935</u> Email: <u>Ashley.Maxwell@scudermiller.com</u> Report due by: _____				Bill To Attention: <u>Dixon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ WO # <u>209 B7302</u>				Lab Use Only Lab WO# <u>PE205122</u> Job Number <u>01058-0007</u> Analysis and Method <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DIO by 810.15</td> <td>GRO by 810.15</td> <td>BTEX by 802.1</td> <td>VOC by 826.0</td> <td>Metals 6010</td> <td>Chloride 300.0</td> <td></td> <td></td> <td></td> <td></td> <td>BCDOC - NM</td> <td>BCDOC - TX</td> <td></td> <td></td> </tr> </table>								DIO by 810.15	GRO by 810.15	BTEX by 802.1	VOC by 826.0	Metals 6010	Chloride 300.0					BCDOC - NM	BCDOC - TX			TAT 1D <input type="checkbox"/> 3D <input type="checkbox"/> EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/> Remarks			
DIO by 810.15	GRO by 810.15	BTEX by 802.1	VOC by 826.0	Metals 6010	Chloride 300.0					BCDOC - NM	BCDOC - TX																						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DIO by 810.15	GRO by 810.15	BTEX by 802.1	VOC by 826.0	Metals 6010	Chloride 300.0			BCDOC - NM	BCDOC - TX																		
0926	5/24/22	Soil	1	SB39@0'	11									X																			
0932	5/24/22	Soil	1	SB40@0'	12									X																			
0935	5/24/22	Soil	1	SB41@0'	13						X																						
0938	5/24/22	Soil	1	SB42@0'	14						X																						
0940	5/24/22	Soil	1	SB43@0'	15						X																						
1012	5/24/22	Soil	1	SB44@0'	16						X																						
1015	5/24/22	Soil	1	SB45@0'	17						X																						
1017	5/24/22	Soil	1	SB46@0'	18						X																						
1019	5/24/22	Soil	1	SB47@0'	19						X																						
1146	5/23/21	Soil	1	SB47@6"	20						X																						
Additional Instructions: _____ (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____ Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 3 but less than 6 °C on subsequent days																																	
Relinquished by: (Signature) <u>Heath M. Wood</u> Date <u>5/23/22</u> Time <u>1711</u>				Received by: (Signature) <u>[Signature]</u> Date <u>5/23/22</u> Time <u>1724</u>				Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																									
Relinquished by: (Signature) _____    Date _____    Time _____				Received by: (Signature) _____    Date _____    Time _____																													
Relinquished by: (Signature) _____    Date _____    Time _____				Received by: (Signature) _____    Date _____    Time _____																													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																	

envirotech

## Envirotech Analytical Laboratory

Printed: 5/24/2022 1:43:29PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	05/23/22 17:24	Work Order ID:	E205122
Phone:	(505) 325-7535	Date Logged In:	05/24/22 11:09	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	05/31/22 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Heather WoodComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Maxwell



# envirotech

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## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 CTB 1

Work Order: E205123

Job Number: 01058-0007

Received: 5/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/31/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 5/31/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E205123  
Date Received: 5/23/2022 5:24:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2022 5:24:00PM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
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**Lynn Jarboe**  
Technical Representative/Client Services  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 05/31/22 17:06
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB48 @ 0'	E205123-01A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.
SB49 @ 0'	E205123-02A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.
SB50 @ 0'	E205123-03A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.
SB51 @ 0'	E205123-04A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.
SB52 @ 0'	E205123-05A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.
SB34 @ 6"	E205123-06A	Soil	05/20/22	05/23/22	Glass Jar, 4 oz.



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB48 @ 0'

E205123-01

Analyte	Result	Reporting	Dilution	Prepared	Analyzed	Notes
		Limit				

<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	1040	20.0	1	05/26/22	05/28/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB49 @ 0'

E205123-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	16400	400	20	05/26/22	05/28/22	





Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB50 @ 0'

E205123-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	11800	400	20	05/26/22	05/28/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB51 @ 0'

E205123-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	40600	2000	100	05/26/22	05/28/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB52 @ 0'  
E205123-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	333	20.0	1	05/26/22	05/28/22	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 5/31/2022 5:06:41PM
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

SB34 @ 6"

E205123-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2222063	
Chloride	1860	40.0	2	05/26/22	05/28/22	



QC Summary Data

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	5/31/2022 5:06:41PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2222063-BLK1)					Prepared: 05/26/22 Analyzed: 05/28/22				
Chloride	ND	20.0							
LCS (2222063-BS1)					Prepared: 05/26/22 Analyzed: 05/28/22				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2222063-MS1)					Source: E205117-01		Prepared: 05/26/22 Analyzed: 05/28/22		
Chloride	15200	200	250	16300	NR	80-120			M4
Matrix Spike Dup (2222063-MSD1)					Source: E205117-01		Prepared: 05/26/22 Analyzed: 05/28/22		
Chloride	17800	200	250	16300	605	80-120	16.1	20	M4

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:	Ashley Maxwell	05/31/22 17:06

- 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.





[illegible]

## Envirotech Analytical Laboratory

Printed: 5/24/2022 1:48:52PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	05/23/22 17:24	Work Order ID:	E205123
Phone:	(505) 325-7535	Date Logged In:	05/24/22 11:13	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	05/31/22 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Heather WoodComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Heather Woods



5796 U.S. Hwy 64  
Farmington, NM 87401

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



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## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 CTB 1

Work Order: E208129

Job Number: 01058-0007

Received: 8/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/26/22

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: 8/26/22

Heather Woods  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E208129  
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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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**Lynn Jarboe**  
Technical Representative/Client Services  
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Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 08/26/22 14:35
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH53 @ 0'	E208129-01A	Soil	08/22/22	08/24/22	Glass Jar, 2 oz.
BH53 @ 0.5'	E208129-02A	Soil	08/22/22	08/24/22	Glass Jar, 2 oz.
BH54 @ 0'	E208129-03A	Soil	08/22/22	08/24/22	Glass Jar, 2 oz.
BH55 @ 0'	E208129-04A	Soil	08/22/22	08/24/22	Glass Jar, 2 oz.
BH55 @ 0.5'	E208129-05A	Soil	08/22/22	08/24/22	Glass Jar, 2 oz.





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/26/2022 2:35:10PM

**BH53 @ 0'**

**E208129-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
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	
o-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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	91.3 %	50-200		08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2235034	
Chloride	338	20.0	1	08/24/22	08/24/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/26/2022 2:35:10PM

**BH53 @ 0.5'**

**E208129-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
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	
o-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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: n-Nonane</i>						
		75.3 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235034
Chloride	45.9	20.0	1	08/24/22	08/24/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/26/2022 2:35:10PM

**BH54 @ 0'**

**E208129-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
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	
o-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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
		71.0 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2235034	
Chloride	ND	20.0	1	08/24/22	08/24/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/26/2022 2:35:10PM

BH55 @ 0'

E208129-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
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	
o-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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>		78.7 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2235034	
Chloride	63.6	20.0	1	08/24/22	08/25/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/26/2022 2:35:10PM

BH55 @ 0.5'

E208129-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
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	
o-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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2235038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/24/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	08/24/22	08/24/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
		81.2 %	50-200	08/24/22	08/24/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2235034	
Chloride	33.3	20.0	1	08/24/22	08/24/22	



## QC Summary Data

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:	Heather Woods	8/26/2022 2:35:10PM

## 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
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## Blank (2235038-BLK1)

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			

## LCS (2235038-BS1)

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.57	0.0250	5.00		91.4	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

## Matrix Spike (2235038-MS1)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.55	0.0250	5.00	ND	90.9	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	61-133			
Toluene	4.65	0.0250	5.00	ND	93.1	61-130			
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131			
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			

## Matrix Spike Dup (2235038-MSD1)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Benzene	4.57	0.0250	5.00	ND	91.3	54-133	0.472	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	0.510	20	
Toluene	4.67	0.0250	5.00	ND	93.5	61-130	0.445	20	
o-Xylene	4.69	0.0250	5.00	ND	93.7	63-131	0.713	20	
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131	0.570	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131	0.618	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	70-130			





## QC Summary Data

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:	Heather Woods	8/26/2022 2:35:10PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235038-BLK1)

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			

## LCS (2235038-BS2)

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

## Matrix Spike (2235038-MS2)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			

## Matrix Spike Dup (2235038-MSD2)

Source: E208129-02

Prepared: 08/24/22 Analyzed: 08/24/22

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	4.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/26/2022 2:35:10PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235025-BLK1)

Prepared: 08/23/22 Analyzed: 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: 08/23/22 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: 08/23/22 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: 08/23/22 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

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/26/2022 2:35:10PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2235034-BLK1)

Prepared: 08/24/22 Analyzed: 08/24/22

Chloride ND 20.0

## LCS (2235034-BS1)

Prepared: 08/24/22 Analyzed: 08/24/22

Chloride 249 20.0 250 99.6 90-110

## LCS Dup (2235034-BSD1)

Prepared: 08/24/22 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.



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	08/26/22 14:35

- 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.



### Project Information

[illegible]

## Envirotech Analytical Laboratory

Printed: 8/25/2022 11:01:51AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/24/22 10:30	Work Order ID:	E208129
Phone:	(575) 200-5443	Date Logged In:	08/23/22 16:47	Logged In By:	Caitlin Christian
Email:		Due Date:	08/26/22 17:00 (2 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Heather Woods



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf CTB 1-12

Work Order: E208187

Job Number: 01058-0007

Received: 9/1/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/2/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/2/22

Heather Woods  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf CTB 1-12  
Workorder: E208187  
Date Received: 9/1/2022 10:30:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2022 10:30:00AM, under the Project Name: Seawolf CTB 1-12.

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

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

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

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

Respectfully,

**Walter Hinchman**  
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Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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Field Offices:

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	09/02/22 12:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NRE01	E208187-01A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE02	E208187-02A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE03	E208187-03A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE04	E208187-04A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE05	E208187-05A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE06	E208187-06A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE07	E208187-07A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE08	E208187-08A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE09	E208187-09A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE10	E208187-10A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE11	E208187-11A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE12	E208187-12A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE13	E208187-13A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE14	E208187-14A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE15	E208187-15A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
NRE16	E208187-16A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS01 @ 1	E208187-17A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS02 @ 1	E208187-18A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS03 @ 1	E208187-19A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS04 @ 1	E208187-20A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS05 @ 1	E208187-21A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS06 @ 0	E208187-22A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS06 @ 8"	E208187-23A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS07 @ 0	E208187-24A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS07 @ 8"	E208187-25A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS08 @ 0	E208187-26A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.
AS08 @ 6"	E208187-27A	Soil	08/30/22	09/01/22	Amber Glass Jar, 4 oz.



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE01

## E208187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	77.5 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	15300	400	20	08/31/22	09/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE02

## E208187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	76.2 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	15900	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE03

## E208187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	97.3 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	9800	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE04

## E208187-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	85.9 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	1740	40.0	2	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE05

## E208187-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		100 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	10300	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE06

## E208187-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		101 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	6740	200	10	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE07

## E208187-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	116	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	58.4	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		102 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	18700	400	20	08/31/22	09/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE08

## E208187-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		90.7 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	15700	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE09

## E208187-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		98.8 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	17700	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE10

## E208187-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		90.4 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	9640	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE11

## E208187-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		80.9 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	6350	200	10	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE12

## E208187-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		96.3 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	32600	2000	100	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE13

## E208187-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	09/01/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		94.3 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	1430	40.0	2	08/31/22	09/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE14

## E208187-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	96.0 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	104 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	19500	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE15

## E208187-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	83.6 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	7500	200	10	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

## NRE16

## E208187-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	87.2 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	13100	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS01 @ 1

E208187-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	96.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	96.0 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	84.9 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	2870	400	20	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS02 @ 1

E208187-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	97.0 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	8170	200	10	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS03 @ 1

E208187-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236054
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.3 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236042
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	104 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236043
Chloride	1630	20.0	1	08/31/22	09/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS04 @ 1

E208187-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236054	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/01/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/01/22	09/01/22	
Surrogate: Toluene-d8	99.2 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236042	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane	91.1 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236043	
Chloride	1790	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS05 @ 1

E208187-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	946	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS06 @ 0

E208187-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		98.8 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	144	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS06 @ 8"

E208187-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	57.2	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS07 @ 0

E208187-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		94.4 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	64.8	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS07 @ 8"

E208187-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	41.6	20.0	1	08/31/22	09/01/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS08 @ 0

E208187-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	523	20.0	1	08/31/22	09/01/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf CTB 1-12  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
9/2/2022 12:28:33PM

AS08 @ 6"

E208187-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236045	
Chloride	398	20.0	1	08/31/22	09/01/22	



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2236054-BLK1)

Prepared: 08/31/22 Analyzed: 09/01/22

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	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

## LCS (2236054-BS1)

Prepared: 08/31/22 Analyzed: 09/01/22

Benzene	2.47	0.0250	2.50		98.8	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.36	0.0250	2.50		94.4	70-130			
o-Xylene	2.56	0.0250	2.50		102	70-130			
p,m-Xylene	5.00	0.0500	5.00		100	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

## LCS Dup (2236054-BSD1)

Prepared: 08/31/22 Analyzed: 09/01/22

Benzene	2.36	0.0250	2.50		94.4	70-130	4.47	23	
Ethylbenzene	2.44	0.0250	2.50		97.5	70-130	3.67	27	
Toluene	2.26	0.0250	2.50		90.2	70-130	4.59	24	
o-Xylene	2.47	0.0250	2.50		98.9	70-130	3.46	27	
p,m-Xylene	4.82	0.0500	5.00		96.3	70-130	3.74	27	
Total Xylenes	7.29	0.0250	7.50		97.2	70-130	3.64	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

## 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
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## Blank (2236049-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.6	70-130			

## LCS (2236049-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.48	0.0250	5.00		110	70-130			
o-Xylene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.4	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

## LCS Dup (2236049-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	5.05	0.0250	5.00		101	70-130	2.88	20	
Ethylbenzene	5.29	0.0250	5.00		106	70-130	2.87	20	
Toluene	5.33	0.0250	5.00		107	70-130	2.85	20	
o-Xylene	5.25	0.0250	5.00		105	70-130	2.78	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.94	20	
Total Xylenes	15.9	0.0250	15.0		106	70-130	2.89	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236049-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

## LCS (2236049-BS2)

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

## LCS Dup (2236049-BSD2)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	1.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236054-BLK1)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.453		0.500		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

## LCS (2236054-BS2)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		87.9	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	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 (2236054-BSD2)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130	1.47	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			





## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

## Blank (2236042-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.7		50.0		103	50-200			

## LCS (2236042-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: <i>n</i> -Nonane	51.8		50.0		104	50-200			

## LCS Dup (2236042-BSD1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	251	25.0	250		101	38-132	7.37	20	
Surrogate: <i>n</i> -Nonane	53.2		50.0		106	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2236044-BLK1)					Prepared: 08/31/22 Analyzed: 08/31/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.3		50.0		113	50-200			

LCS (2236044-BS1)					Prepared: 08/31/22 Analyzed: 08/31/22				
Diesel Range Organics (C10-C28)	246	25.0				38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

LCS Dup (2236044-BSD1)					Prepared: 08/31/22 Analyzed: 08/31/22				
Diesel Range Organics (C10-C28)	248	25.0				38-132	0.959	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2236043-BLK1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	ND	20.0							
LCS (2236043-BS1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	248	20.0	250		99.1	90-110			
LCS Dup (2236043-BSD1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	248	20.0	250		99.1	90-110	0.0218	20	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf CTB 1-12	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	9/2/2022 12:28:33PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2236045-BLK1)					Prepared: 08/31/22 Analyzed: 09/02/22				
Chloride	ND	20.0							
LCS (2236045-BS1)					Prepared: 08/31/22 Analyzed: 09/02/22				
Chloride	271	20.0	250		108	90-110			
LCS Dup (2236045-BSD1)					Prepared: 08/31/22 Analyzed: 09/02/22				
Chloride	249	20.0	250		99.6	90-110	8.45	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 CTB 1-12	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	09/02/22 12:28

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

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

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



## Project Information

## Chain of Custody

Client: <u>Snyder Miller &amp; Associates</u> Project: <u>Scalwolf CTS 1-12</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S Hualapueno</u> City, State, Zip: <u>Carlsbad NM 88220</u> Phone: _____ Email: _____ Report due by: _____				Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ WO # <u>20987302</u>				Lab Use Only Lab WO# <u>PE218187</u> Job Number <u>01058-0007</u> Analysis and Method				TAT 1D 3D <u>X</u>		EPA Program RCRA CWA SDWA		
										State NM CO UT AZ <u>X</u> <u></u> <u></u> <u></u> TX OK <u></u> <u></u>						
										Remarks						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	5108 Ag ORO/OKIG	5115 GRD Ag ORO/OKIG	RTX by 8021	VOC by 8260	Metals 0010	Chloride 300.0	UGDOC - NM	AGDOC - TX			
0906	8/30/22	Soil	1	NRE01	1							X				
0908	8/30/22	Soil	1	NRE02	2							X				
0909	8/30/22	Soil	1	NRE03	3							X				
0910	8/30/22	Soil	1	NRE04	4							X				
0911	8/30/22	Soil	1	NRE05	5							X				
0912	8/30/22	Soil	1	NRE06	6							X				
0915	8/30/22	Soil	1	NRE07	7							X				
0916	8/30/22	Soil	1	NRE08	8							X				
0917	8/30/22	Soil	1	NRE09	9							X				
0918	8/30/22	Soil	1	NRE10	10							X				
Additional Instructions: Please send to Heather Woods, Sarahmay Schlea, Georgann Goodman (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____ Relinquished by: (Signature) _____ Date <u>8/30/22</u> Time <u>4:05</u> Relinquished by: (Signature) _____ Date <u>8/31/22</u> Time <u>4:15</u> Relinquished by: (Signature) _____ Date <u>8/31/22</u> Time <u>4:15</u> Received by: (Signature) _____ Date <u>8/31/22</u> Time <u>10:30</u> Received by: (Signature) _____ Date <u>8/31/22</u> Time <u>10:30</u> Received by: (Signature) _____ Date <u>8/31/22</u> Time <u>10:30</u> Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																
Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



## Chain of Custody

## Project Information

Client: <b>Souder Miller &amp; Associates</b> Project: <b>Seawolf CTB I-12</b> Project Manager: <b>Heather Woods</b> Address: <b>201 S. Malagueño</b> City, State, Zip: <b>Carlsbad NM 88220</b> Phone: _____ Email: _____		<b>Bill To</b> Attention: <b>Devon</b> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____  <b>WO# 20987302</b>		<b>Lab Use Only</b>						<b>TAT</b>		<b>EPA Program</b>													
				Lab WO# <b>PE208187</b>		Job Number <b>01058-0007</b>				ID	3D	RCRA		CWA	SDWA										
				Analysis and Method										State											
				DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			UGDOC - NM	BGDOC - TX	NM	CO	UT	AZ								
										X															
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																				
0919	8/30/22	Soil	1	NRE11	11																				
0920	8/30/22	Soil	1	NRE12	12																				
0921	8/30/22	Soil	1	NRE13	13																				
0922	8/30/22	Soil	1	NRE14	14																				
0923	8/30/22	Soil	1	NRE15	15																				
0924	8/30/22	Soil	1	NRE16	16																				
0950	8/30/22	Soil	1	AS01 @ 1	17																				
0955	8/30/22	Soil	1	AS02 @ 1	18																				
1002	8/30/22	Soil	1	AS03 @ 1	19																				
1008	8/30/22	Soil	1	AS04 @ 1	20																				
<b>Additional Instructions:</b> Please Send to Heather Woods, Sarahmay Schlea, & Georgann Goodman <small>(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:</small>																									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																	
[Signature]		8/30/22	3:55	[Signature]		8/30/22	4:15	Received on ice: Y N																	
Reinquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3																	
[Signature]		8/30/22	4:15	[Signature]		9/1/22	10:30																		
Reinquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C																	
[Signature]				[Signature]				4																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sl - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									

## Chain of Custody

## Project Information

Client: Souder Miller + Associates  
 Project: Seawall CTB 1-12  
 Project Manager: Heather Woods  
 Address: 201 S Hualapueno  
 City, State, Zip: Carlsbad NM 88220  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Report due by: \_\_\_\_\_

## Bill To

Attention: Devon  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

WO # 20987302

Lab Use Only: Lab WO# PE208187 Job Number 01058-0007 TAT 1D 3D X  
 Analysis and Method

## EPA Program

RCRA CWA SDWA  
 State  
 NM CO UT AZ  
 TX OK

## Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	TOX/Ag/DO/DO/DO/DO	GRU/DO/DO/DO/DO/DO	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	MM - DO/DO/DO/DO/DO	TX - DO/DO/DO/DO/DO	Remarks
1012	8/30/22	Soil	1	AS05 @ 1	21							X		
1022	8/30/22	Soil	1	AS06 @ 0	22							X		
1025	8/30/22	Soil	1	AS06 @ 8"	23							X		
1028	8/30/22	Soil	1	AS07 @ 0	24							X		
1031	8/30/22	Soil	1	AS07 @ 8"	25							X		
1033	8/30/22	Soil	1	AS08 @ 0	26							X		
1035	8/30/22	Soil	1	AS08 @ 6"	27							X		

## Additional Instructions:

Please Send to Heather Woods, Sarahmay Schlee, & Georgiann Goodman

(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
	8/30/22	4:20		8/30/22	4:15	Received on ice: Y / N
	8/30/22	4:20				T1 T2 T3
						AVG Temp °C

Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

## Envirotech Analytical Laboratory

Printed: 9/1/2022 11:38:54AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	09/01/22 10:30	Work Order ID:	E208187
Phone:	(575) 200-5443	Date Logged In:	08/31/22 15:47	Logged In By:	Raina Schwanz
Email:		Due Date:	09/01/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Heather Woods



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: Devon Seawolf 1-12 CTB 1

Work Order: E208014

Job Number: 01058-0007

Received: 8/2/2022

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

Heather Woods  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Devon Seawolf 1-12 CTB 1  
Workorder: E208014  
Date Received: 8/2/2022 3:51:00PM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2022 3:51:00PM, under the Project Name: Devon Seawolf 1-12 CTB 1.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Devon Seawolf 1-12 CTB 1	<b>Reported:</b> 08/09/22 17:18
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1	E208014-01A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-2	E208014-02A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-3	E208014-03A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-4	E208014-04A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-5	E208014-05A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-6	E208014-06A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-7	E208014-07A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-8	E208014-08A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-9	E208014-09A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-10	E208014-10A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-11	E208014-11A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-12	E208014-12A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-13	E208014-13A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.
SC-14	E208014-14A	Soil	07/29/22	08/02/22	Glass Jar, 2 oz.



## Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Devon Seawolf 1-12 CTB 1 Project Number: 01058-0007 Project Manager: Heather Woods	<b>Reported:</b> 8/9/2022 5:18:32PM
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## SC-1

## E208014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	ND	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/06/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	1380	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	599	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		96.8 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	25.3	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-2

## E208014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	ND	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/06/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	5990	250	10	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	2670	500	10	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	593	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-3

## E208014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	<b>0.244</b>	0.0250	1	08/03/22	08/06/22	
Toluene	<b>0.0908</b>	0.0250	1	08/03/22	08/06/22	
o-Xylene	<b>0.658</b>	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	<b>1.81</b>	0.0500	1	08/03/22	08/06/22	
Total Xylenes	<b>2.47</b>	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		122 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	<b>36.3</b>	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	<b>5520</b>	250	10	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	<b>2290</b>	500	10	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	<b>1300</b>	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-4

## E208014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	<b>0.0519</b>	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	<b>0.182</b>	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	<b>0.554</b>	0.0500	1	08/03/22	08/06/22	
Total Xylenes	<b>0.736</b>	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	<b>4400</b>	250	10	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	<b>2060</b>	500	10	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		86.9 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	<b>1680</b>	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-5

## E208014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	ND	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/06/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233023
Diesel Range Organics (C10-C28)	94.2	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	91.4	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		99.5 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233001
Chloride	63.3	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-6

## E208014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	ND	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/06/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	360	20.0	1	08/08/22	08/08/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

SC-7

E208014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	<b>0.170</b>	0.0250	1	08/03/22	08/06/22	
Toluene	<b>0.0644</b>	0.0250	1	08/03/22	08/06/22	
o-Xylene	<b>0.480</b>	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	<b>1.08</b>	0.0500	1	08/03/22	08/06/22	
Total Xylenes	<b>1.56</b>	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	<b>28.2</b>	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	<b>17800</b>	250	10	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	<b>10100</b>	500	10	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	<b>4260</b>	40.0	2	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-8

## E208014-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/06/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/06/22	
Toluene	ND	0.0250	1	08/03/22	08/06/22	
o-Xylene	ND	0.0250	1	08/03/22	08/06/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/06/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/03/22	08/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	344	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	206	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		99.5 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	182	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-9

## E208014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	0.0611	0.0500	1	08/03/22	08/07/22	
Total Xylenes	0.0611	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	3430	250	10	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	1850	500	10	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	9070	100	5	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-10

## E208014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/07/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2232048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233023	
Diesel Range Organics (C10-C28)	36.5	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	67.9	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		92.8 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233001	
Chloride	92000	400	20	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-11

## E208014-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/07/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233023
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		92.8 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233001
Chloride	3490	40.0	2	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-12

## E208014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/07/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233023
Diesel Range Organics (C10-C28)	45.1	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	72.9	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		96.5 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233001
Chloride	2890	40.0	2	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-13

## E208014-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/07/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233023
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		86.6 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233001
Chloride	7610	100	5	08/08/22	08/08/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Devon Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/9/2022 5:18:32PM

## SC-14

## E208014-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Benzene	ND	0.0250	1	08/03/22	08/07/22	
Ethylbenzene	ND	0.0250	1	08/03/22	08/07/22	
Toluene	ND	0.0250	1	08/03/22	08/07/22	
o-Xylene	ND	0.0250	1	08/03/22	08/07/22	
p,m-Xylene	ND	0.0500	1	08/03/22	08/07/22	
Total Xylenes	ND	0.0250	1	08/03/22	08/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/03/22	08/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	08/03/22	08/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233023
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
		87.5 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233001
Chloride	3780	40.0	2	08/08/22	08/08/22	



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Seawolf 1-12 CTB 1	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/9/2022 5:18:32PM

## 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
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## Blank (2232048-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.88		8.00		111	70-130			

## LCS (2232048-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Benzene	3.97	0.0250	5.00		79.3	70-130			
Ethylbenzene	3.94	0.0250	5.00		78.8	70-130			
Toluene	4.02	0.0250	5.00		80.4	70-130			
o-Xylene	4.10	0.0250	5.00		82.0	70-130			
p,m-Xylene	7.99	0.0500	10.0		79.9	70-130			
Total Xylenes	12.1	0.0250	15.0		80.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.09		8.00		114	70-130			

## Matrix Spike (2232048-MS1)

Source: E208014-02

Prepared: 08/03/22 Analyzed: 08/06/22

Benzene	3.99	0.0250	5.00	ND	79.7	54-133			
Ethylbenzene	3.89	0.0250	5.00	ND	77.8	61-133			
Toluene	4.01	0.0250	5.00	ND	80.2	61-130			
o-Xylene	4.01	0.0250	5.00	ND	80.3	63-131			
p,m-Xylene	7.86	0.0500	10.0	ND	78.6	63-131			
Total Xylenes	11.9	0.0250	15.0	ND	79.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.01		8.00		113	70-130			

## Matrix Spike Dup (2232048-MSD1)

Source: E208014-02

Prepared: 08/03/22 Analyzed: 08/06/22

Benzene	4.06	0.0250	5.00	ND	81.2	54-133	1.90	20	
Ethylbenzene	3.97	0.0250	5.00	ND	79.3	61-133	2.00	20	
Toluene	4.09	0.0250	5.00	ND	81.8	61-130	2.03	20	
o-Xylene	4.10	0.0250	5.00	ND	82.1	63-131	2.23	20	
p,m-Xylene	8.03	0.0500	10.0	ND	80.3	63-131	2.05	20	
Total Xylenes	12.1	0.0250	15.0	ND	80.9	63-131	2.11	20	
Surrogate: 4-Bromochlorobenzene-PID	9.09		8.00		114	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/9/2022 5:18:32PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2232048-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.91		8.00		111	70-130			

## LCS (2232048-BS2)

Prepared: 08/03/22 Analyzed: 08/06/22

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.81		8.00		110	70-130			

## Matrix Spike (2232048-MS2)

Source: E208014-02

Prepared: 08/03/22 Analyzed: 08/06/22

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	87.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

## Matrix Spike Dup (2232048-MSD2)

Source: E208014-02

Prepared: 08/03/22 Analyzed: 08/06/22

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130	0.782	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/9/2022 5:18:32PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233023-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			

## LCS (2233023-BS1)

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	228	25.0	250		91.2	38-132			
Surrogate: n-Nonane	43.2		50.0		86.3	50-200			

## Matrix Spike (2233023-MS1)

Source: E208014-06

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	47.6		50.0		95.3	50-200			

## Matrix Spike Dup (2233023-MSD1)

Source: E208014-06

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.76	20	
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/9/2022 5:18:32PM

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233001-BLK1)

Prepared: 08/08/22 Analyzed: 08/08/22

Chloride ND 20.0

## LCS (2233001-BS1)

Prepared: 08/08/22 Analyzed: 08/08/22

Chloride 237 20.0 250 94.9 90-110

## Matrix Spike (2233001-MS1)

Source: E208014-01

Prepared: 08/08/22 Analyzed: 08/08/22

Chloride 264 20.0 250 25.3 95.3 80-120

## Matrix Spike Dup (2233001-MSD1)

Source: E208014-01

Prepared: 08/08/22 Analyzed: 08/08/22

Chloride 270 20.0 250 25.3 98.0 80-120 2.47 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:	Devon Seawolf 1-12 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	08/09/22 17:18

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

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

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



## Project Information

## Chain of Custody

Page 1 of 2

5-DAY

Client: <u>Souder, Miller &amp; Associates</u> Project: <u>Devon Seawolf 1-12 CTB 1</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S. Halagueno</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(505) 716-2787</u> Email: <u>Heather.Woods@soudermiller.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: WO # <u>20987302</u>					Lab Use Only: Lab WO# <u>PE208014</u> Job Number <u>01058-0007</u> Analysis and Method					TAT 1D 3D		EPA Program RCRA CWA SDWA		
												State NM CO UT AZ TX OK							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	SI 08 Ag CRO/CHL	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		NM	TX	Remarks				
1030	7/29/22	S	1	SC-1	1								X						
1031	7/29/22	S	1	SC-2	2								X						
1033	7/29/22	S	1	SC-3	3								X						
1034	7/29/22	S	1	SC-4	4								X						
1038	7/29/22	S	1	SC-5	5								X						
1039	7/29/22	S	1	SC-6	6								X						
1040	7/29/22	S	1	SC-7	7								X						
1041	7/29/22	S	1	SC-8	8								X						
1047	7/29/22	S	1	SC-9	9								X						
1048	7/29/22	S	1	SC-10	10								X						
Additional Instructions: Email results to <u>Sarahmay.Schlea@soudermiller.com</u>																			
(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Heather Woods</u>																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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## Project Information

## Chain of Custody

Page 2 of 2

5-DAY

Client: <u>Souder, Miller Associates</u> Project: <u>Devon Seawolf 1-12 CTB1</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S. Halagueno</u> City, State, Zip: <u>Carlsbad NM 88220</u> Phone: <u>(505) 714-2787</u> Email: <u>Heather.Woods@soudermiller.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: WO # <u>20987302</u>					Lab Use Only: Lab WO# <u>PE 208014</u> Job Number <u>010558-0007</u> Analysis and Method					TAT 1D 3D		EPA Program RCRA CWA SDWA		
												State NM CO UT AZ TX OK							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BODOC - NM	BODOC - TX			Remarks	
1049	7/29/22	S	1	SC-11	11									X					
1050	7/29/22	S	1	SC-12	12									X					
1055	7/29/22	S	1	SC-13	13									X					
1056	7/29/22	S	1	SC-14	14									X					
<del>           NES            H         </del>																			
Additional Instructions:																			
(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Heather Woods</u>												Samples requiring thermal preservation must be received on the day they are sampled or received packed in ice at an avg temp above 3 but less than 6 °C on subsequent days							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>YY</u> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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## Envirotech Analytical Laboratory

Printed: 8/2/2022 5:26:42PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/02/22 15:51	Work Order ID:	E208014
Phone:	(505) 325-7535	Date Logged In:	08/02/22 17:23	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	08/09/22 17:00 (5 day TAT)		

**Chain of Custody (COC)**

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

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

Carrier: Heather Woods**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Report to:  
Ashley Maxwell



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 CTB 1

Work Order: E208049

Job Number: 01058-0007

Received: 8/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/9/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/9/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E208049  
Date Received: 8/8/2022 10:50:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2022 10:50:00AM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
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Cell: 775-287-1762  
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**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 08/09/22 16:01
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-18	E208049-01A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-17	E208049-02A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-16	E208049-03A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-15	E208049-04A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-19	E208049-05A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-20	E208049-06A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-21	E208049-07A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-22	E208049-08A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-23	E208049-09A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-24	E208049-10A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-25	E208049-11A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-26	E208049-12A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-27	E208049-13A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-28	E208049-14A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-29	E208049-15A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-30	E208049-16A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-31	E208049-17A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-32	E208049-18A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-33	E208049-19A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-34	E208049-20A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-18

## E208049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	69.3	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

SC-17

E208049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.8 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
<i>Surrogate: n-Nonane</i>	103 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	996	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-16

## E208049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233014
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233012
Chloride	1520	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-15

## E208049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.2 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
<i>Surrogate: n-Nonane</i>	104 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	428	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-19

## E208049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.1 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	274	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	163	50.0	1	08/08/22	08/08/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	7840	100	5	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-20

## E208049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	3630	40.0	2	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-21

## E208049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.5 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	<i>109 %</i>	<i>50-200</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	117	20.0	1	08/08/22	08/09/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-22

## E208049-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.5 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.7 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	83.5 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	22.2	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-23

## E208049-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.5 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.7 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	108 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	3080	1000	50	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-24

## E208049-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.8 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	95.3	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	80.3	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	103 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	34800	1000	50	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-25

## E208049-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.3 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	12200	200	10	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-26

## E208049-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.2 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.1 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	105 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	6380	200	10	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-27

## E208049-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.5 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.6 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	<i>108 %</i>	<i>50-200</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	201	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-28

## E208049-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	100 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	129	20.0	1	08/08/22	08/09/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-29

## E208049-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.5 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	107 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	114	40.0	2	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-30

## E208049-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.6 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>50-200</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	14200	200	10	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-31

## E208049-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.9 %</i>	<i>70-130</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	<i>97.8 %</i>	<i>50-200</i>		<i>08/08/22</i>	<i>08/09/22</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	3220	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

SC-32

E208049-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.4 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.4 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	112 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	564	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-33

## E208049-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	219	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 4:01:51PM

## SC-34

## E208049-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.8 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2233014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.2 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2233021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
<i>Surrogate: n-Nonane</i>	107 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2233012	
Chloride	1810	20.0	1	08/08/22	08/09/22	



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/9/2022 4:01:51PM

## 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
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## Blank (2233014-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

## LCS (2233014-BS1)

Prepared: 08/08/22 Analyzed: 08/09/22

Benzene	4.41	0.0250	5.00		88.2	70-130			
Ethylbenzene	4.42	0.0250	5.00		88.3	70-130			
Toluene	4.55	0.0250	5.00		90.9	70-130			
o-Xylene	4.52	0.0250	5.00		90.5	70-130			
p,m-Xylene	8.94	0.0500	10.0		89.4	70-130			
Total Xylenes	13.5	0.0250	15.0		89.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

## LCS Dup (2233014-BS1)

Prepared: 08/08/22 Analyzed: 08/09/22

Benzene	4.45	0.0250	5.00		89.0	70-130	0.904	20	
Ethylbenzene	4.46	0.0250	5.00		89.1	70-130	0.884	20	
Toluene	4.58	0.0250	5.00		91.7	70-130	0.813	20	
o-Xylene	4.56	0.0250	5.00		91.2	70-130	0.851	20	
p,m-Xylene	9.02	0.0500	10.0		90.2	70-130	0.804	20	
Total Xylenes	13.6	0.0250	15.0		90.5	70-130	0.820	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			





## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/9/2022 4:01:51PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233014-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

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

## LCS (2233014-BS2)

Prepared: 08/08/22 Analyzed: 08/09/22

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

## LCS Dup (2233014-BSD2)

Prepared: 08/08/22 Analyzed: 08/09/22

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		93.9	70-130	11.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/9/2022 4:01:51PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233021-BLK1)

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

## LCS (2233021-BS1)

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

## Matrix Spike (2233021-MS1)

Source: E208049-12

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.3	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

## Matrix Spike Dup (2233021-MSD1)

Source: E208049-12

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	256	25.0	250	ND	103	38-132	4.29	20	
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/9/2022 4:01:51PM

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233012-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

Chloride	ND	20.0
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## LCS (2233012-BS1)

Prepared: 08/08/22 Analyzed: 08/09/22

Chloride	256	20.0	250	102	90-110
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## Matrix Spike (2233012-MS1)

Source: E208049-01

Prepared: 08/08/22 Analyzed: 08/09/22

Chloride	310	20.0	250	69.3	96.2	80-120
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## Matrix Spike Dup (2233012-MSD1)

Source: E208049-01

Prepared: 08/08/22 Analyzed: 08/09/22

Chloride	305	20.0	250	69.3	94.3	80-120	1.51	20
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

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 16:01

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

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

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



## Project Information

## Chain of Custody

Page 1 of 4

Client: <u>Souder Miller &amp; Associates</u> Project: <u>Scrub 1-12 CTB</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. La Loma</u> City, State, Zip: <u>Carlsbad NM 88220</u> Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ WO # <u>20987302</u>					Lab Use Only Lab WO# <u>PE208049</u> Job Number <u>01058-000</u> Analysis and Method ID <u>1D</u> <u>3D</u> NM CO UT AZ TX OK Remarks									
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks					
0932	8/4/22	Soil	1	SC-18	1							X							
0931	8/4/22	Soil	1	SC-17	2							X							
0930	8/4/22	Soil	1	SC-16	3							X							
0929	8/4/22	Soil	1	SC-15	4							X							
0933	8/4/22	Soil	1	SC-19	5							X							
0934	8/4/22	Soil	1	SC-20	6							X							
0935	8/4/22	Soil	1	SC-21	7							X							
0936	8/4/22	Soil	1	SC-22	8							X							
0937	8/4/22	Soil	1	SC-23	9							X							
0938	8/4/22	Soil	1	SC-24	10							X							
Additional Instructions: <u>Please, report to Heather Woods Ashley Maxwell Sarahmay Schlea, Georgeann Goodman</u> (Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____ Relinquished by: (Signature) <u>[Signature]</u> Date <u>8/4/22</u> Time <u>1:40</u> Received by: (Signature) <u>[Signature]</u> Date <u>8-5-22</u> Time <u>1:15</u> Relinquished by: (Signature) <u>[Signature]</u> Date <u>8-5-22</u> Time <u>4:15</u> Received by: (Signature) <u>[Signature]</u> Date <u>8/8/22</u> Time <u>10:50</u> Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____ Lab Use Only Received on ice: <u>Y</u> <u>N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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## Project Information

## Chain of Custody

Page 2 of 4

Client: <u>Sander Miller &amp; Associates</u> Project: <u>Seawolf 1-12 CTB</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S Haldagueno</u> City, State, Zip: <u>Carlsbad NM 88500</u> Phone: _____ Email: _____ Report due by: _____				Bill To Attention: <u>Devin</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ <u>WO # 20987302</u>				Lab Use Only Lab WO# <u>PE208049</u> Job Number <u>01088-0007</u> Analysis and Method INDO/DRO by 8015 GRO/DRO by 8015 NTEX by 8023 VOC by 8260 Metals 6010 Chloride 300.0 BGDQC NM BGDQC TX										EPA Program ID 3D RCRA CWA SDWA State NM CO UT AZ TX OK Remarks			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	INDO/DRO by 8015	GRO/DRO by 8015	NTEX by 8023	VOC by 8260	Metals 6010	Chloride 300.0	BGDQC NM	BGDQC TX								
0939	8/4/22	Soil	1	SC-25	11							X									
0940	8/4/22	Soil	1	SC-26	12							X									
0941	8/4/22	Soil	1	SC-27	13							X									
0945	8/4/22	Soil	1	SC-28	14							X									
0946	8/4/22	Soil	1	SC-29	15							X									
0947	8/4/22	Soil	1	SC-30	16							X									
0948	8/4/22	Soil	1	SC-31	17							X									
0949	8/4/22	Soil	1	SC-32	18							X									
0950	8/4/22	Soil	1	SC-33	19							X									
0951	8/4/22	Soil	1	SC-34	20							X									
Additional Instructions: <u>Please send report to Heather Woods Ashley Maxwell Sarahmax Schlen</u> I, the sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Georgann Goodman</u> Relinquished by: (Signature) <u>[Signature]</u> Date <u>8/4/22</u> Time <u>1:43</u> Received by: (Signature) <u>[Signature]</u> Date <u>8-5-22</u> Time <u>1:15</u> Relinquished by: (Signature) <u>[Signature]</u> Date <u>8-5-22</u> Time <u>4:15</u> Received by: (Signature) <u>[Signature]</u> Date <u>8/8/22</u> Time <u>10:50</u> Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____ Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

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## Envirotech Analytical Laboratory

Printed: 8/8/2022 1:28:49PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/08/22 10:50	Work Order ID:	E208049
Phone:	(505) 325-7535	Date Logged In:	08/08/22 11:27	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	08/09/22 17:00 (1 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

This project has been separated into two workorders due to amount of samples. workorders are as follows: E208049 ( coc pages 1&2 of 4) and E208050 (coc pages 3&4 of 4)

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Maxwell



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 CTB 1

Work Order: E208050

Job Number: 01058-0007

Received: 8/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/9/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/9/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E208050  
Date Received: 8/8/2022 10:50:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2022 10:50:00AM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**Lynn Jarboe**  
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Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 08/09/22 17:13
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-35	E208050-01A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-36	E208050-02A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-37	E208050-03A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-38	E208050-04A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-39	E208050-05A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-40	E208050-06A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-41	E208050-07A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-42	E208050-08A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-43	E208050-09A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-44	E208050-10A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-45	E208050-11A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-46	E208050-12A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-47	E208050-13A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-48	E208050-14A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-49	E208050-15A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-50	E208050-16A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-51	E208050-17A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.
SC-52	E208050-18A	Soil	08/04/22	08/08/22	Glass Jar, 4 oz.



## Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: Seawolf 1-12 CTB 1 Project Number: 01058-0007 Project Manager: Ashley Maxwell	Reported: 8/9/2022 5:13:50PM
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## SC-35

## E208050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	545	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	706	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane	100 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	14500	400	20	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-36

## E208050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233015	
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2233022	
Diesel Range Organics (C10-C28)	34.2	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane	101 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2233013	
Chloride	14100	400	20	08/08/22	08/08/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

SC-37

E208050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/08/22	08/08/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/08/22	08/08/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane		99.1 %	50-200	08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	4770	100	5	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-38

## E208050-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	34.7	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane	107 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	857	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-39

## E208050-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane	99.9 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	59.7	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-40

## E208050-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	108 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	108 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/08/22	
Surrogate: n-Nonane	102 %	50-200		08/08/22	08/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	555	20.0	1	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-41

## E208050-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	108 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	108 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	5700	500	20	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	5100	1000	20	08/08/22	08/09/22	
Surrogate: n-Nonane	103 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	6060	100	5	08/08/22	08/08/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-42

## E208050-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/08/22	08/08/22	
Surrogate: Toluene-d8		105 %	70-130	08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/08/22	08/08/22	
Surrogate: Toluene-d8		105 %	70-130	08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	207	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	306	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane		99.0 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	12100	400	20	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-43

## E208050-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233015	
Benzene	ND	0.0250	1	08/08/22	08/08/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/08/22	
Toluene	ND	0.0250	1	08/08/22	08/08/22	
o-Xylene	ND	0.0250	1	08/08/22	08/08/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/08/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2233015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		08/08/22	08/08/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/22	08/08/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2233022	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	107 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2233013	
Chloride	1370	20.0	1	08/08/22	08/09/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-44

## E208050-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		106 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		106 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane		108 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	78.2	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-45

## E208050-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	102 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	102 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	90.4 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	44.0	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-46

## E208050-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane		105 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	78.7	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

SC-47

E208050-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	116 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	62.1	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

SC-48

E208050-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	97.5 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	104	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-49

## E208050-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	103 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	91.5 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	ND	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-50

## E208050-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/08/22	08/09/22	
Surrogate: Toluene-d8		104 %	70-130	08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane		93.5 %	50-200	08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	20.4	20.0	1	08/08/22	08/09/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

## SC-51

## E208050-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	104 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	105 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	271	20.0	1	08/08/22	08/09/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/9/2022 5:13:50PM

SC-52

E208050-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Benzene	ND	0.0250	1	08/08/22	08/09/22	
Ethylbenzene	ND	0.0250	1	08/08/22	08/09/22	
Toluene	ND	0.0250	1	08/08/22	08/09/22	
o-Xylene	ND	0.0250	1	08/08/22	08/09/22	
p,m-Xylene	ND	0.0500	1	08/08/22	08/09/22	
Total Xylenes	ND	0.0250	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	106 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2233015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/22	08/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/22	08/09/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/08/22	08/09/22	
Surrogate: Toluene-d8	106 %	70-130		08/08/22	08/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2233022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/22	08/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/22	08/09/22	
Surrogate: n-Nonane	106 %	50-200		08/08/22	08/09/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2233013
Chloride	312	20.0	1	08/08/22	08/09/22	



## QC Summary Data

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	8/9/2022 5:13:50PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2233015-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

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	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

## LCS (2233015-BS1)

Prepared: 08/08/22 Analyzed: 08/09/22

Benzene	2.37	0.0250	2.50		95.0	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.8	70-130			
Toluene	2.35	0.0250	2.50		93.9	70-130			
o-Xylene	2.24	0.0250	2.50		89.7	70-130			
p,m-Xylene	4.46	0.0500	5.00		89.2	70-130			
Total Xylenes	6.70	0.0250	7.50		89.3	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## LCS Dup (2233015-BSD1)

Prepared: 08/08/22 Analyzed: 08/09/22

Benzene	2.24	0.0250	2.50		89.7	70-130	5.67	23	
Ethylbenzene	2.30	0.0250	2.50		92.1	70-130	3.98	27	
Toluene	2.24	0.0250	2.50		89.8	70-130	4.55	24	
o-Xylene	2.15	0.0250	2.50		85.9	70-130	4.28	27	
p,m-Xylene	4.27	0.0500	5.00		85.3	70-130	4.39	27	
Total Xylenes	6.41	0.0250	7.50		85.5	70-130	4.35	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



## QC Summary Data

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	8/9/2022 5:13:50PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233015-BLK1)

Prepared: 08/08/22 Analyzed: 08/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

## LCS (2233015-BS2)

Prepared: 08/08/22 Analyzed: 08/09/22

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

## LCS Dup (2233015-BSD2)

Prepared: 08/08/22 Analyzed: 08/09/22

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.7	70-130	8.48	20	
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/9/2022 5:13:50PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2233022-BLK1)

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

## LCS (2233022-BS1)

Prepared: 08/08/22 Analyzed: 08/08/22

Diesel Range Organics (C10-C28)	238	25.0	250		95.1	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

## Matrix Spike (2233022-MS1)

Source: E208050-07

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	5270	500	250	5700	NR	38-132			M4
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

## Matrix Spike Dup (2233022-MSD1)

Source: E208050-07

Prepared: 08/08/22 Analyzed: 08/09/22

Diesel Range Organics (C10-C28)	5640	500	250	5700	NR	38-132	6.76	20	M4
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			



QC Summary Data

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	8/9/2022 5:13:50PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2233013-BLK1)					Prepared: 08/08/22 Analyzed: 08/08/22				
Chloride	ND	20.0							
LCS (2233013-BS1)					Prepared: 08/08/22 Analyzed: 08/08/22				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2233013-MS1)					Source: E208050-01		Prepared: 08/08/22 Analyzed: 08/08/22		
Chloride	14500	400	250	14500	1.09	80-120			M2
Matrix Spike Dup (2233013-MSD1)					Source: E208050-01		Prepared: 08/08/22 Analyzed: 08/08/22		
Chloride	13100	400	250	14500	NR	80-120	9.98	20	M2

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	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	08/09/22 17:13

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
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.



## Project Information

## Chain of Custody

Page 3 of 4

Client: <u>Snyder Miller &amp; Associates</u> Project: <u>Sample 1-12 CTB</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S Alagueno</u> City, State, Zip: <u>Corrabad NM 88220</u> Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ <u>WO# 20987302</u>					Lab Use Only										EPA Program							
										Lab WO#					Job Number					TAT		RCRA		CWA		SDWA	
										Analysis and Method										State							
																				NM CO UT AZ TX OK							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/ORD by 8015	GRO/DRO by 8015	BTEX by 8023	VOC by 8260	Metals 6010	Chloride 300.0			BCDOX - NM	BCDOC - TX				Remarks								
0952	8/4/22	Soil	1	SC-35	1									X													
0953	8/4/22	Soil	1	SC-36	2									X													
0954	8/4/22	Soil	1	SC-37	3									X													
0955	8/4/22	Soil	1	SC-38	4									X													
0956	8/4/22	Soil	1	SC-39	5									X													
0957	8/4/22	Soil	1	SC-40	6									X													
0958	8/4/22	Soil	1	SC-41	7									X													
0959	8/4/22	Soil	1	SC-42	8									X													
1000	8/4/22	Soil	1	SC-43	9									X													
1003	8/4/22	Soil	1	SC-44	10									X													
Additional Instructions: <u>Please send report to Heather Woods, Ashley Maxwell, Sarahmay Schlect, Georgeann Goodman</u> (Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date of collection is considered fraud and may be grounds for legal action. Sampled by: _____ Samples requiring thermal preservation must be received in ice the day they are sampled or received packed in ice at an avg temp above 3 but less than 6 °C on subsequent days																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only															
<u>[Signature]</u>		8/4/22		1:52		<u>[Signature]</u>		8/8/22		1:15		Received on ice: <u>Y</u> N															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____															
<u>[Signature]</u>		8/5/22		4:15		<u>[Signature]</u>		8/8/22		10:50																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>															
<u>[Signature]</u>						<u>[Signature]</u>																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

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## Project Information

## Chain of Custody

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Client: <u>Souder Miller &amp; Associates</u> Project: <u>Seawolf 1-12 CTB</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S Hualaqui</u> City, State, Zip: <u>Carlsbad NM 88520</u> Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ <u>WO #20987302</u>					Lab Use Only Lab WO# <u>PE2080500058-0001</u> Job Number _____ Analysis and Method DRO/DRO by 8015 _____ GRO/DRO by 8015 _____ RTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chintle 300.1 _____ BGDUC - NM _____ BGDUC - TX _____										EPA Program TAT <u>2day</u> RCRA _____ CWA _____ SDWA _____ State NM CO UT AZ TX OK Remarks				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	RTEX by 8021	VOC by 8260	Metals 6010	Chintle 300.1	BGDUC - NM	BGDUC - TX	Remarks										
1004	8/4/22	Soil	1	SC-45	11							X												
1005	8/4/22	Soil	1	SC-46	12							X												
1006	8/4/22	Soil	1	SC-47	13							X												
1007	8/4/22	Soil	1	SC-48	14							X												
1008	8/4/22	Soil	1	SC-49	15							X												
1009	8/4/22	Soil	1	SC-50	16							X												
1010	8/4/22	Soil	1	SC-51	17							X												
1011	8/4/22	Soil	1	SC-52	18							X												
Additional Instructions: <u>Please send report to Heather Woods, Ashley Maxwell, Sarah May Schlegel, Georgiann Goodman</u> (Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____ Relinquished by: (Signature) _____ Date <u>8/4/22</u> Time <u>2:06</u> Received by: (Signature) _____ Date <u>8/5/22</u> Time <u>1:15</u> Relinquished by: (Signature) _____ Date <u>8-5-22</u> Time <u>4:15</u> Received by: (Signature) _____ Date <u>8/8/22</u> Time <u>10:50</u> Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____ Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

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## Envirotech Analytical Laboratory

Printed: 8/8/2022 1:30:10PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/08/22 10:50	Work Order ID:	E208050
Phone:	(505) 325-7535	Date Logged In:	08/08/22 11:42	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	08/09/22 17:00 (1 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

This project has been separated into two workorders due to amount of samples. workorders are as follows: E208049 ( coc pages 1&2 of 4) and E208050 (coc pages 3&4 of 4)

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

Date



envirotech Inc.

Report to:  
Ashley Maxwell



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: E208076

Job Number: 01058-0007

Received: 8/15/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/16/22

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: 8/16/22

Ashley Maxwell  
201 S Halagueno St.  
Carlsbad, NM 88220



Project Name: Seawolf 1-12 CTB 1  
Workorder: E208076  
Date Received: 8/15/2022 9:50:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/15/2022 9:50:00AM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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Field Offices:

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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 08/16/22 15:18
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-53	E208076-01A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-54	E208076-02A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-55	E208076-03A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-56	E208076-04A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-57	E208076-05A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-58	E208076-06A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-59	E208076-07A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-60	E208076-08A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-61	E208076-09A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-62	E208076-10A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-63	E208076-11A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-64	E208076-12A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-65	E208076-13A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-66	E208076-14A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-67	E208076-15A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-68	E208076-16A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-69	E208076-17A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-70	E208076-18A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-71	E208076-19A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-72	E208076-20A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-73	E208076-21A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-74	E208076-22A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-75	E208076-23A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-76	E208076-24A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-77	E208076-25A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.
SC-78	E208076-26A	Soil	08/11/22	08/15/22	Glass Jar, 2 oz.



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

SC-53

E208076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	99.6 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	99.6 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	67.6 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	70.8	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-54

## E208076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.4 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	93.6 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.4 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	28.2	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	72.3 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	203	20.0	1	08/15/22	08/15/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-55

## E208076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	105 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	105 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	76.9 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	650	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-56

## E208076-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		106 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		106 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	34.4	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		80.4 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	886	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

SC-57

E208076-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		109 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		109 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		73.1 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	3720	40.0	2	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

SC-58

E208076-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	99.4 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	99.4 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	78.2 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	731	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-59

## E208076-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	58.2 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	875	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-60

## E208076-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.1 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.1 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	66.7 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	487	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-61

## E208076-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.8 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.8 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	48.3	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	62.3 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	2580	40.0	2	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-62

## E208076-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	95.2 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	95.2 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.3 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	68.7 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	376	20.0	1	08/15/22	08/15/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-63

## E208076-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.6 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.6 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	71.3 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	371	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-64

## E208076-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.2 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.2 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	77.4 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	916	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-65

## E208076-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	98.9 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	75.0 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	977	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-66

## E208076-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	94.6 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	64.8	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	51.8	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	86.5 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	4190	40.0	2	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

SC-67

E208076-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	101 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	101 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	80.2 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	660	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-68

## E208076-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.1 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	97.1 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	86.9 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	355	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-69

## E208076-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	26.4	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		81.7 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	980	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-70

## E208076-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	104 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	104 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	85.8 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	477	20.0	1	08/15/22	08/15/22	





## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-71

## E208076-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		96.6 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	944	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-72

## E208076-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		101 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		103 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		60.2 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234010
Chloride	875	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-73

## E208076-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	105 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	105 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	87.9 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	1370	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-74

## E208076-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	102 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	102 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	86.8 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	723	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-75

## E208076-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	104 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	104 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	34.3	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	94.2 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	734	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-76

## E208076-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	103 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	103 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	93.4 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	239	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

SC-77

E208076-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	101 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/15/22	08/15/22	
Surrogate: Toluene-d8	101 %	70-130		08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane	92.1 %	50-200		08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	255	20.0	1	08/15/22	08/15/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Ashley Maxwell

**Reported:**  
8/16/2022 3:18:35PM

## SC-78

## E208076-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Benzene	ND	0.0250	1	08/15/22	08/15/22	
Ethylbenzene	ND	0.0250	1	08/15/22	08/15/22	
Toluene	ND	0.0250	1	08/15/22	08/15/22	
o-Xylene	ND	0.0250	1	08/15/22	08/15/22	
p,m-Xylene	ND	0.0500	1	08/15/22	08/15/22	
Total Xylenes	ND	0.0250	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		104 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/15/22	08/15/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/15/22	08/15/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/15/22	08/15/22	
Surrogate: Toluene-d8		104 %	70-130	08/15/22	08/15/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234002
Diesel Range Organics (C10-C28)	81.5	25.0	1	08/15/22	08/15/22	
Oil Range Organics (C28-C36)	65.3	50.0	1	08/15/22	08/15/22	
Surrogate: n-Nonane		92.4 %	50-200	08/15/22	08/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234011
Chloride	741	20.0	1	08/15/22	08/15/22	





## QC Summary Data

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	8/16/2022 3:18:35PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234006-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

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	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

## LCS (2234006-BS1)

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.03	0.0250	2.50		81.0	70-130			
Ethylbenzene	2.11	0.0250	2.50		84.6	70-130			
Toluene	1.99	0.0250	2.50		79.4	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.23	0.0500	5.00		84.7	70-130			
Total Xylenes	6.43	0.0250	7.50		85.8	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

## Matrix Spike (2234006-MS1)

Source: E208076-05

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.12	0.0250	2.50	ND	84.9	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135			
Toluene	2.17	0.0250	2.50	ND	86.8	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.4	43-135			
p,m-Xylene	4.66	0.0500	5.00	ND	93.1	43-135			
Total Xylenes	7.04	0.0250	7.50	ND	93.9	43-135			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

## Matrix Spike Dup (2234006-MSD1)

Source: E208076-05

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.23	0.0250	2.50	ND	89.3	48-131	5.00	23	
Ethylbenzene	2.35	0.0250	2.50	ND	94.0	45-135	1.05	27	
Toluene	2.21	0.0250	2.50	ND	88.4	48-130	1.87	24	
o-Xylene	2.42	0.0250	2.50	ND	97.0	43-135	1.68	27	
p,m-Xylene	4.73	0.0500	5.00	ND	94.6	43-135	1.58	27	
Total Xylenes	7.16	0.0250	7.50	ND	95.4	43-135	1.61	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			



## QC Summary Data

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	8/16/2022 3:18:35PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234008-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

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	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

## LCS (2234008-BS1)

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.20	0.0250	2.50		87.9	70-130			
Ethylbenzene	2.27	0.0250	2.50		90.7	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.13	0.0250	2.50		85.0	70-130			
p,m-Xylene	4.22	0.0500	5.00		84.3	70-130			
Total Xylenes	6.34	0.0250	7.50		84.6	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

## Matrix Spike (2234008-MS1)

Source: E208070-02

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.20	0.0250	2.50	ND	88.0	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	91.9	45-135			
Toluene	2.18	0.0250	2.50	ND	87.4	48-130			
o-Xylene	2.18	0.0250	2.50	ND	87.1	43-135			
p,m-Xylene	4.27	0.0500	5.00	ND	85.4	43-135			
Total Xylenes	6.45	0.0250	7.50	ND	85.9	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## Matrix Spike Dup (2234008-MSD1)

Source: E208070-02

Prepared: 08/15/22 Analyzed: 08/15/22

Benzene	2.24	0.0250	2.50	ND	89.7	48-131	1.91	23	
Ethylbenzene	2.38	0.0250	2.50	ND	95.2	45-135	3.55	27	
Toluene	2.28	0.0250	2.50	ND	91.1	48-130	4.21	24	
o-Xylene	2.22	0.0250	2.50	ND	88.7	43-135	1.84	27	
p,m-Xylene	4.44	0.0500	5.00	ND	88.8	43-135	3.94	27	
Total Xylenes	6.66	0.0250	7.50	ND	88.8	43-135	3.24	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



## QC Summary Data

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	8/16/2022 3:18:35PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234006-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

## LCS (2234006-BS2)

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.7	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## Matrix Spike (2234006-MS2)

Source: E208076-05

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

## Matrix Spike Dup (2234006-MSD2)

Source: E208076-05

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.1	70-130	0.913	20	
Surrogate: Bromofluorobenzene	0.482		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			



## QC Summary Data

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	8/16/2022 3:18:35PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234008-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

## LCS (2234008-BS2)

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

## Matrix Spike (2234008-MS2)

Source: E208070-02

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

## Matrix Spike Dup (2234008-MSD2)

Source: E208070-02

Prepared: 08/15/22 Analyzed: 08/15/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



## QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	8/16/2022 3:18:35PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234001-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.7	50-200			

## LCS (2234001-BS1)

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

## Matrix Spike (2234001-MS1)

Source: E208076-18

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	45.3		50.0		90.7	50-200			

## Matrix Spike Dup (2234001-MSD1)

Source: E208076-18

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	2.89	20	
Surrogate: n-Nonane	36.4		50.0		72.8	50-200			



## QC Summary Data

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	8/16/2022 3:18:35PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234002-BLK1)

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

## LCS (2234002-BS1)

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	247	25.0	250		98.8	38-132			
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			

## Matrix Spike (2234002-MS1)

Source: E208076-24

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	39.6		50.0		79.1	50-200			

## Matrix Spike Dup (2234002-MSD1)

Source: E208076-24

Prepared: 08/15/22 Analyzed: 08/15/22

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	0.0141	20	
Surrogate: n-Nonane	38.7		50.0		77.4	50-200			



QC Summary Data

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	8/16/2022 3:18:35PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2234010-BLK1)					Prepared: 08/15/22 Analyzed: 08/15/22				
Chloride	ND	20.0							
LCS (2234010-BS1)					Prepared: 08/15/22 Analyzed: 08/15/22				
Chloride	243	20.0	250		97.0	90-110			
LCS Dup (2234010-BSD1)					Prepared: 08/15/22 Analyzed: 08/15/22				
Chloride	245	20.0	250		97.9	90-110	0.922	20	



QC Summary Data

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	8/16/2022 3:18:35PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2234011-BLK1)					Prepared: 08/15/22 Analyzed: 08/15/22				
Chloride	ND	20.0							
LCS (2234011-BS1)					Prepared: 08/15/22 Analyzed: 08/16/22				
Chloride	249	20.0	250		99.7	90-110			
LCS Dup (2234011-BSD1)					Prepared: 08/15/22 Analyzed: 08/16/22				
Chloride	244	20.0	250		97.5	90-110	2.17	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:	Ashley Maxwell	08/16/22 15:18

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

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

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



## Project Information

## Chain of Custody

Page 1 of 3

**RUSH**

Client: <u>Soudier Miller &amp; Associates</u> Project: <u>Seawolf F-12 CTB1</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S. Halague St</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Bevon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ <u>WO# 20987302</u>					Lab Use Only					TAT		EPA Program			
										Lab WO# <u>PE 208076</u>		Job Number <u>01058-0007</u>			1D	3D	RCRA	CWA	SDWA	
Analysis and Method															State					
DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 3000															BGDGC NM BGDGC TX		NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>			
															Remarks					

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDGC NM	BGDGC TX	Remarks
0907	8/11/22	Soil	1	SC-53	1							X		
0910	8/11/22	Soil	1	SC-54	2							X		
0911	8/11/22	Soil	1	SC-55	3							X		
0912	8/11/22	Soil	1	SC-56	4							X		
0913	8/11/22	Soil	1	SC-57	5							X		
0914	8/11/22	Soil	1	SC-58	6							X		
0915	8/11/22	Soil	1	SC-59	7							X		
0916	8/11/22	Soil	1	SC-60	8							X		
0917	8/11/22	Soil	1	SC-61	9							X		
0918	8/11/22	Soil	1	SC-62	10							X		

**Additional Instructions:**

(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature) _____		Date	Time	Received by: (Signature) _____		Date	Time	Lab Use Only	
Relinquished by: (Signature) _____		Date	Time	Received by: (Signature) _____		Date	Time	Received on ice: <u>Y</u> / N	
Relinquished by: (Signature) _____		Date	Time	Received by: (Signature) _____		Date	Time	T1 _____ T2 _____ T3 _____	
								AVG Temp °C <u>4</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



## Project Information

## Chain of Custody

Page 2 of 3

RUSH

Client: <u>Sander Miller &amp; Associates</u> Project: <u>Seawolf F12 CTB1</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S Halaquero St</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Doxon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ WO# <u>20987302</u>					Lab Use Only Lab WO# <u>PE208076</u> Job Number <u>01058-0007</u> Analysis and Method DIRO/DRO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 0010 _____ Chloride 300.0 _____ BGDOC - NM _____ BGDOC - TX _____										TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DIRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 0010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks											
0919	8/11/22	S011	1	SC-63	11							X													
0920	8/11/22	S011	1	SC-64	12							X													
0923	8/11/22	S011	1	SC-65	13							X													
0924	8/11/22	S011	1	SC-66	14							X													
0925	8/11/22	S011	1	SC-67	15							X													
0926	8/11/22	S011	1	SC-68	16							X													
0927	8/11/22	S011	1	SC-69	17							X													
0928	8/11/22	S011	1	SC-70	18							X													
0929	8/11/22	S011	1	SC-71	19							X													
0931	8/11/22	S011	1	SC-72	20							X													
Additional Instructions:																									
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									

envirotech



## Project Information

## Chain of Custody

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RUSH

Client: <u>Sauder Miller &amp; Associates</u>				Bill To				Lab Use Only				TAT		EPA Program								
Project: <u>Scawolf 1-12 CTB 1</u>				Attention: <u>Dexon</u>				Lab WO# <u>PE 2098076</u>				Job Number <u>01058-0057</u>		1D	3D	RCRA	CWA	SDWA				
Project Manager: <u>Heather Woods</u>				Address:				Analysis and Method								State						
Address: <u>2015 Halarvino St</u>				City, State, Zip												NM				CO	UT	AZ
City, State, Zip: <u>Carlsbad, NM 88220</u>				Phone:				DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	TX	OK					
Email:				Email:															Remarks			
Report due by:				<u>WO# 20987302</u>																		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	TX	OK	Remarks
0932	8/11/22	soil	1	SC-73	21							X				
0933	8/11/22	soil	1	SC-74	22							X				
0934	8/11/22	soil	1	SC-75	23							X				
0935	8/11/22	soil	1	SC-76	24							X				
0939	8/11/22	soil	1	SC-77	25							X				
0940	8/11/22	soil	1	SC-78	26							X				

**Additional Instructions:**

(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8/11/22</u>	Time <u>1700</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-12-22</u>	Time <u>1:00p</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-12-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8/15/22</u>	Time <u>9:50</u>	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
AVG Temp °C <u>4</u>						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

## Envirotech Analytical Laboratory

Printed: 8/15/2022 10:09:51AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/15/22 09:50	Work Order ID:	E208076
Phone:	(505) 325-7535	Date Logged In:	08/12/22 15:48	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	08/15/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

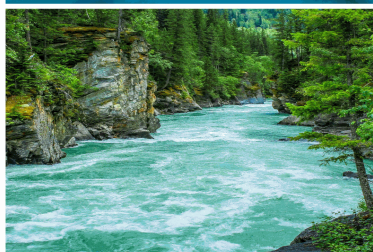
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Heather Woods



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: E208097

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: E208097  
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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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**Sample Summary**

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b> 08/19/22 14:15
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-79	E208097-01A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SC-80	E208097-02A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SC-81	E208097-03A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SC-82	E208097-04A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SC-83	E208097-05A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.
SC-84	E208097-06A	Soil	08/17/22	08/18/22	Glass Jar, 2 oz.



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

SC-79

E208097-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,m-Xylene	ND	0.0500	1	08/18/22	08/18/22	
Total Xylenes	ND	0.0250	1	08/18/22	08/18/22	
<i>Surrogate: Bromofluorobenzene</i>	98.4 %	70-130		08/18/22	08/18/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.7 %	70-130		08/18/22	08/18/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
<i>Surrogate: Bromofluorobenzene</i>	98.4 %	70-130		08/18/22	08/18/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.7 %	70-130		08/18/22	08/18/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
<i>Surrogate: n-Nonane</i>	77.8 %	50-200		08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	ND	20.0	1	08/17/22	08/18/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

## SC-80

## E208097-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,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		100 %	70-130	08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/18/22	08/18/22	
Surrogate: Toluene-d8		104 %	70-130	08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene		100 %	70-130	08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	08/18/22	08/18/22	
Surrogate: Toluene-d8		104 %	70-130	08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	25.5	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
Surrogate: n-Nonane		74.2 %	50-200	08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	ND	20.0	1	08/17/22	08/18/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

## SC-81

## E208097-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,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	98.9 %	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	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene	98.9 %	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	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
Surrogate: n-Nonane	86.0 %	50-200		08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	26.7	20.0	1	08/17/22	08/18/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

## SC-82

## E208097-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,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	98.3 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
Surrogate: n-Nonane	84.0 %	50-200		08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	ND	20.0	1	08/17/22	08/18/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

## SC-83

## E208097-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,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	99.7 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	102 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene	99.7 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	102 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	31.1	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
Surrogate: n-Nonane	86.8 %	50-200		08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	54.7	20.0	1	08/17/22	08/18/22	



## Sample Data

Souder Miller Associates - Carlsbad  
201 S Halagueno St.  
Carlsbad NM, 88220

Project Name: Seawolf 1-12 CTB 1  
Project Number: 01058-0007  
Project Manager: Heather Woods

**Reported:**  
8/19/2022 2:15:06PM

## SC-84

## E208097-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	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	
o-Xylene	ND	0.0250	1	08/18/22	08/18/22	
p,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	98.4 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2234061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/22	08/18/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/18/22	08/18/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/18/22	08/18/22	
Surrogate: Toluene-d8	103 %	70-130		08/18/22	08/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2234071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/22	08/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/22	08/18/22	
Surrogate: n-Nonane	81.0 %	50-200		08/18/22	08/18/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2234058
Chloride	100	20.0	1	08/17/22	08/18/22	



## QC Summary Data

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:	Heather Woods	8/19/2022 2:15:06PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234061-BLK1)

Prepared: 08/18/22 Analyzed: 08/18/22

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	0.471		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: 08/18/22 Analyzed: 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: 08/18/22 Analyzed: 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	
o-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	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			





## QC Summary Data

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:	Heather Woods	8/19/2022 2:15:06PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234061-BLK1)

Prepared: 08/18/22 Analyzed: 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: 08/18/22 Analyzed: 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: 08/18/22 Analyzed: 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

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 CTB 1	<b>Reported:</b>
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	8/19/2022 2:15:06PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2234071-BLK1)

Prepared: 08/18/22 Analyzed: 08/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.0		50.0		85.9	50-200			

## LCS (2234071-BS1)

Prepared: 08/18/22 Analyzed: 08/18/22

Diesel Range Organics (C10-C28)	229	25.0	250		91.4	38-132			
Surrogate: <i>n</i> -Nonane	42.9		50.0		85.9	50-200			

## LCS Dup (2234071-BSD1)

Prepared: 08/18/22 Analyzed: 08/18/22

Diesel Range Organics (C10-C28)	228	25.0	250		91.1	38-132	0.367	20	
Surrogate: <i>n</i> -Nonane	40.3		50.0		80.5	50-200			



QC Summary Data

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:	Heather Woods	8/19/2022 2:15:06PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2234058-BLK1)					Prepared: 08/17/22 Analyzed: 08/17/22				
Chloride	ND	20.0							
LCS (2234058-BS1)					Prepared: 08/17/22 Analyzed: 08/17/22				
Chloride	263	20.0	250		105	90-110			
LCS Dup (2234058-BSD1)					Prepared: 08/17/22 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 14:15

- 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

Client: <u>Souder Miller + Associates</u>					Bill To		Lab Use Only		TAT		EPA Program				
Project: <u>Seawall 1-12 CTB</u>					Attention: <u>Devon</u>		Lab WO# <u>PE208097</u>		Job Number <u>0058-0007</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Heather Woods</u>					Address:		Analysis and Method				State				
Address: <u>201 S Halaqueno</u>					City, State, Zip						NM CO UT AZ				
City, State, Zip: <u>Carlsbad NM 88220</u>					Phone:						TX OK				
Email:					Email:						Remarks				
Report due by:					<u>WO #20987302</u>										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX		
0748	8/17/22	Soil	1	SC-79	1							X			
0749	8/17/22	Soil	1	SC-80	2							X			
0750	8/17/22	Soil	1	SC-81	3							X			
0754	8/17/22	Soil	1	SC-82	4							X			
0757	8/17/22	Soil	1	SC-83	5							X			
0758	8/17/22	Soil	1	SC-84	6							X			

**Additional Instructions:**  
Please send to Sarahmay Schlea, Heather Woods & Georgeann Goodman  
 (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	8/17/22	10:30	<u>[Signature]</u>	8-17-22	12:30	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<u>[Signature]</u>			<u>[Signature]</u>	8/18/22	10:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
						4

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

envirotech

## Envirotech Analytical Laboratory

Printed: 8/18/2022 11:10:29AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	08/18/22 10:00	Work Order ID:	E208097
Phone:	(575) 200-5443	Date Logged In:	08/17/22 16:14	Logged In By:	Caitlin Christian
Email:		Due Date:	08/18/22 17:00 (0 day TAT)		

**Chain of Custody (COC)**

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

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

Carrier: UPS**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 179154

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 179154
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	2/14/2023