



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

March 24, 2021

#5E29133-BG71

NMOCD District 1
1625 N. French Dr.
Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Seawolf 1-12 Federal 81H (NRM2028763451), Lea, County, New Mexico

To Whom it May Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Seawolf 1-12 Federal 81H site. The site is in Unit C, Section 1, Township 26S, Range 33E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Seawolf 1-12 Federal 81H	Company	Devon Energy Production Company
API Number	30-025-43762	Location	32.076852, -103.526662
Tracking Number	NRM2028763451		
Estimated Date of Release	9/28/2020	Date Reported to NMOCD	9/28/2020
Land Owner	Federal	Reported To	NMOCD, BLM
Source of Release	Underground flowline leak		
Released Volume	2 BBLS 12 BBLS	Released Material	Crude Oil & Produced Water
Recovered Volume	0 BBLS 7 BBLS	Net Release	7 BBLS
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	November 13, 2020 & February 11, 2021		

Seawolf 1-12 Federal 81H Remediation Closure Report
March 24, 2021

NRM2028763451

1.0 Background

On September 28, 2020, a release was discovered at the Seawolf 1-12 Federal 81H site due to an underground flow-line leak. Initial response activities were conducted by Devon personnel, which included source elimination and site stabilization activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Seawolf 1-12 Federal 81H facility is located approximately 33 miles southeast of Carlsbad, New Mexico on State land at an elevation of approximately 3,661 feet above mean sea level (amsl).

Depth to Groundwater

Based upon Office of the State Engineer (NMOSE) well data (Appendix B), depth to groundwater in the area is estimated to be 167 feet below grade surface (bgs).

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed playa, located approximately 5.0 miles to the southwest of the Seawolf 1-12 Federal 81H site.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the lack of supportable groundwater data, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization and Remediation Activities

On November 13, 2020, SMA personnel performed site delineation activities at the Seawolf 1-12 Federal 81H site. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of four sample locations (L1 – L4) were investigated using a hand-auger, to depths up to three feet bgs. A minimum of twelve samples were collected at each sampling location and field-screened using the methods above. A total of 12 samples were collected for laboratory analysis 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. Figure 3A shows initial sample locations on the site, and Table 3A summarizes the sample results.

On February 11, 2021, SMA returned to the site to guide the excavation of contaminated soil. Samples were 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. The walls and base of the four excavations between the buried pipelines were extended until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on February 5, 2021 that closure samples were expected to be collected in two (2) business days.

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On February 11, 2021, SMA collected confirmation samples from the walls and base of the four excavation areas. Excavation Site 1 (CS1 -CS2 and CSW1 – CSW4), located on the western side of the Seawolf pad, measured 15 by 36 by 3 feet. Excavation Site 2 (CS3 – CS5 and CSW5 – CSW8), located to the east of Excavation Site 1 measured 20 by 37 by 4.5 feet. Excavation Site 3 (CS6 – CS8 and CSW9 – CSW12), located to the east of Excavation Site 2 measured 18 by 40 by 6 feet, while the eastern-most site, Excavation Site 4 (CS9 – CS10 and CSW13 – CSW14), measured 10 by 30 by 3.5 feet.

A total of 24 confirmation samples were collected for laboratory analysis 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. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Envirotech in Farmington, New Mexico.

Figure 3B shows the extent of the final excavation and closure sample locations. All field screening and laboratory results are summarized in Table 3A and 3B. Laboratory reports are included in Appendix D.

4.0 Site Recommendations

As demonstrated in Table 3B, all confirmation samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC. Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Northern Delaware Basin Landfill near Jal, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NRM2028763451.

Seawolf 1-12 Federal 81H Remediation Closure Report
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5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; 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 either Ashley Maxwell at 505-325-7535 or Shawna Chubbuck at 970-565-4465.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell
Project Scientist



Shawna Chubbuck
Senior Scientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 3/19/2021

New Mexico Oil Conservation District (NMOCD) online incident files database
<http://www.emnrd.state.nm.us/OCD/ocdgis.html/>; accessed 12/14/2020

Seawolf 1-12 Federal 81H Remediation Closure Report
March 24, 2021

NRM2028763451

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Protection Map
Figure 3A: Site and Initial Sample Location Map
Figure 3B: Site and Confirmation Sample Location Map

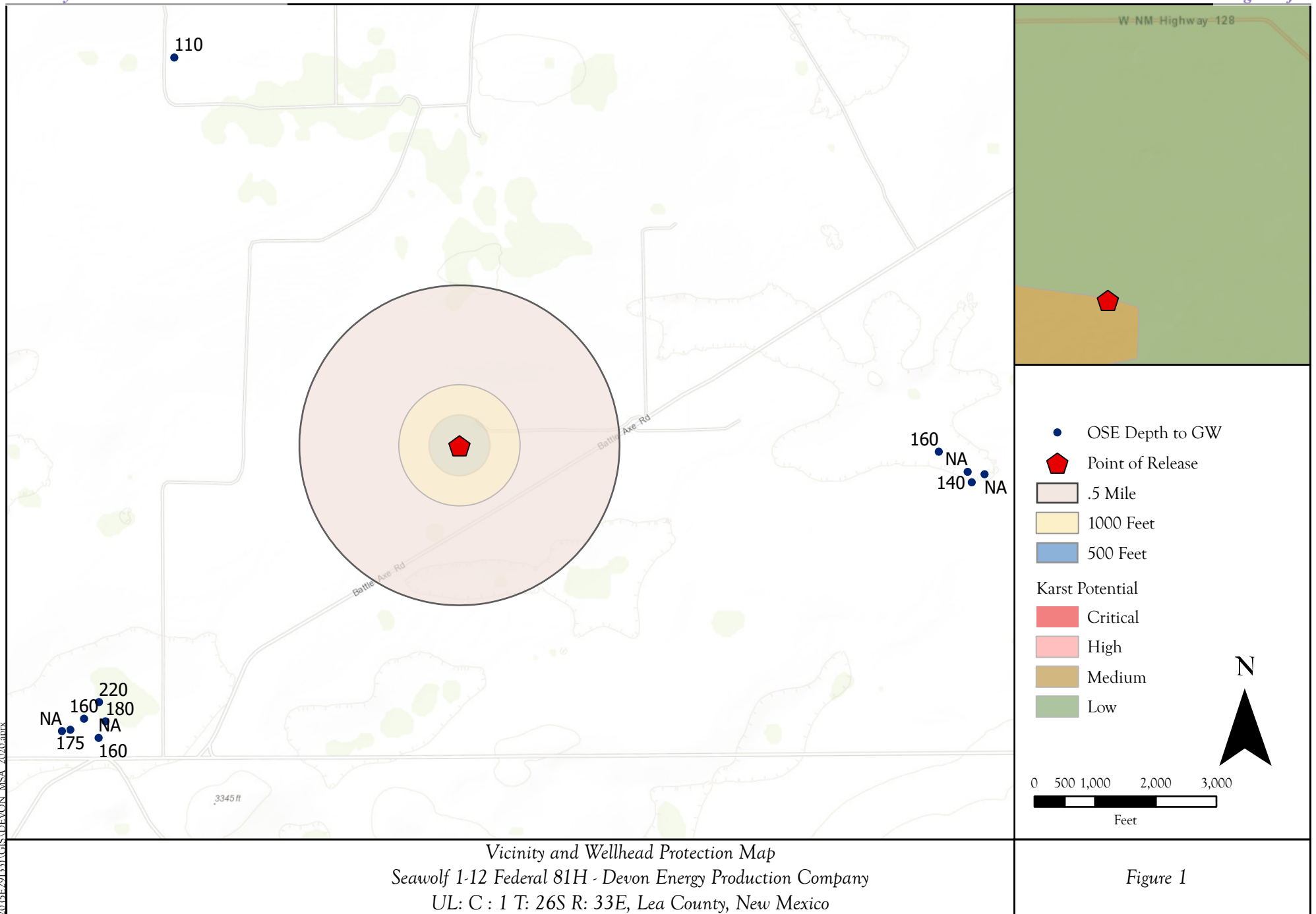
Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3A: Summary of Initial Sample Results
Table 3B: Summary of Confirmation Sample Results

Appendices:

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Sampling Protocol & Field Notes
Appendix D: Laboratory Analytical Reports
Appendix E: Excavation Photo Log

FIGURES



Vicinity and Wellhead Protection Map
 Seawolf 1-12 Federal 81H - Devon Energy Production Company
 UL: C : 1 T: 26S R: 33E, Lea County, New Mexico

Figure 1

R:\5 Devon MSA 2020 (5E29133)\GIS\DEVON_MSA_2020.mxd
 Date Saved: 3/25/2021

Revisions
 By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

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Drawn Jake Madison
 Date 3/25/2021
 Checked _____
 Approved _____



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 Carlsbad, New Mexico 88221
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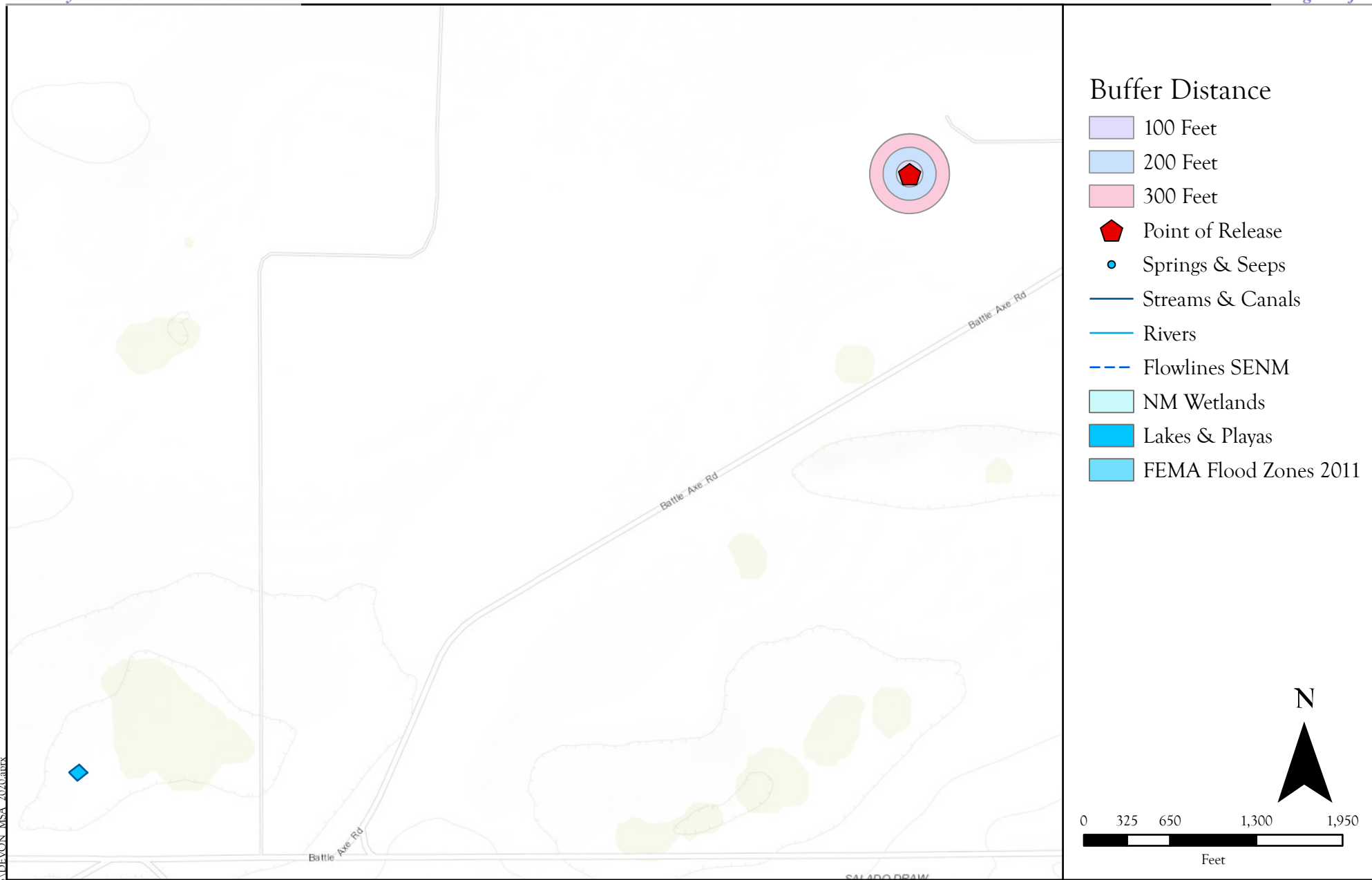


Figure 2

Surface Water Protection Map
Seawolf 1-12 Federal 81H - Devon Energy Production Company
UL: C: 1 T: 26S R: 33E, Lea County, New Mexico

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn	Jake Madison
Date	3/25/2021
Checked	
Approved	



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Site and Sample Location Map
 Seawolf 1-12 Federal 81H - Devon Energy Production Company
 UL: C: 1 T: 26S R: 33E, Lea County, New Mexico

Figure 3a

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

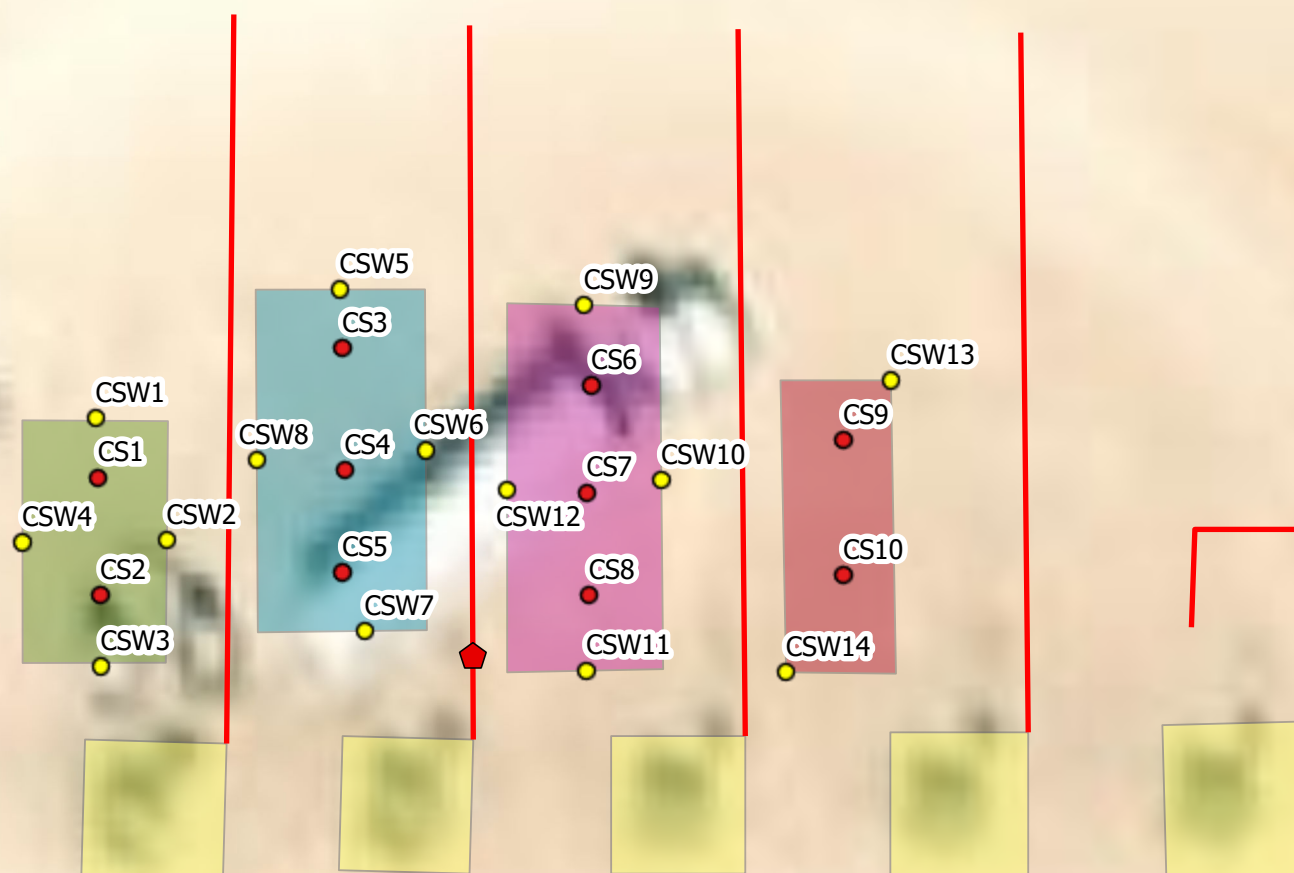
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Excavation and Confirmation Sample Location Map
 Seawolf 1-12 Fed 81H - Devon Energy Production Company
 C: O S: 1 T: 26S R: 33E - Lea County, New Mexico

Figure 3b

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

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TABLES

Table 2:
NMOCD Closure CriteriaDevon Energy Production Company
Seawolf 1-12 Federal 81H

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	167	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	USGS Topo Map
Horizontal Distance to Nearest Significant Watercourse (ft)	7,729	Unnamed playa to the southwest

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	X	600	100		50	10
51' to 100'		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					



Table 3a:
Initial Sample ResultsDevon Energy
Seawolf 1-12 Fed 81H

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement (0-4 ft)				50	10	--	--	--	100	600
NMOCD Closure Criteria (>4 ft)				50	10					
L1	11/13/2020	Surface	Excavate	<0.1	<0.0250	<20.0	15,800	5,640	21,440	55,500
		2		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	1,660
		3		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	666
L2		Surface		<0.1	<0.0250	<20.0	17,900	8,100	26,000	60,700
		2		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	1,450
		3		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	263
L3		Surface		<0.1	<0.0250	<20.0	3,310	1,620	4,930	11,200
		2		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	2,520
		3		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	1,960
L4		Surface		<0.1	<0.0250	<20.0	15,700	6,890	22,590	62,800
		2		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	2,120
		3		<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	3,250

"--" = Not Analyzed

BG: Background sample

SMA #

Table 3b:
Closure Sample Results

Devon Energy Production Company
Seawolf 1-12 Federal 81H

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria			50	10	-			100	600
CS1	2/11/2021	3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS2		3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS3		4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS4		4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS5		4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS6		6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS7		6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS8		6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS9		3.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CS10		3.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW1		0-3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW2		0-3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW3		0-3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW4		0-3	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW5		0-4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW6		0-4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW7		0-4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW8		0-4.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW9		0-6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW10		0-6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW11		0-6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW12		0-6	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW13		0-3.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CSW14		0-3.5	<0.1	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0

"-" = Not Analyzed

BG: Background sample



APPENDIX A FORM C141

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	NRM2028763451
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Lupe Carrasco	Contact Telephone
Contact email Lupe.Carrasco@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.076852 Longitude -103.526662
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Seawolf 1 12 Fed 81H	Site Type Oil
Date Release Discovered 9/28/2020	API# (if applicable) 30-025-43762

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2 BBLS	Volume Recovered (bbls) 0 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 12 BBLS	Volume Recovered (bbls) 7 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 Underground flow line leak.

Incident ID	NRM2028763451
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 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: Spill was not in containment.	
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>	Title: <u>EHS Associate</u>
Signature: <u>Kendra DeHoyos</u>	Date: <u>10/12/2020</u>
email: <u>Kendra.DeHoyos@dvn.com</u>	Telephone: <u>575-748-0167</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>10/13/2020</u>

Incident ID	NRM2028763451
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>167 (Estimate)</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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2028763451
District RP	
Facility ID	
Application ID	

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

Printed Name: __Lupe Carrasco____ Title: __EHS Professional____

Signature: __*Lupe Carrasco*____ Date: __4/1/2021____

email: __Lupe.Carrasco@dvn.com____ Telephone: __575-725-0787____

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2028763451
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lupe Carrasco Title: Environmental Professional
Signature: Lupe Carrasco Date: 4/6/2021
email: lupe.carrasco@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Karen Collins Date: 7/1/2021
Printed Name: Karen Collins Title: Enviro Spec

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
<i>Contaminated Soil measurement</i>	
Area (square feet)	Depth(inches)
<u>2522</u>	<u>0.750</u>
Cubic Feet of Soil Impacted	<u>157.625</u>
Barrels of Soil Impacted	<u>28.10</u>
Soil Type	<u>Clay</u>
Barrels of Oil Assuming 100% Saturation	<u>2.81</u>
Saturation	<u>Fluid present with shovel/backhoe</u>
Estimated Barrels of Oil Released	<u>2.81</u>
<i>Free Standing Fluid Only</i>	
Area (square feet)	Depth(inches)
<u>1500</u>	<u>0.500</u>
Standing fluid	<u>11.141</u>
<u>Total fluids spilled</u>	<u>13.951</u>

APPENDIX B

NMOSE WELLS REPORT



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	Distance	Depth Well	Depth Water	Water Column
C 02291	CUB	LE		1	1	2	06	26S	34E	640825	3550140*	1785	220	160	60
C 03441 POD1	C	LE		4	1	2	06	26S	34E	640971	3550039	1920	250		
C 02292 POD1	CUB	LE		4	1	2	06	26S	34E	640992	3549987	1938	200	140	60
C 03442 POD1	C	LE		4	1	2	06	26S	34E	641056	3550028	2004	251		
C 02295	CUB	LE		2	2	4	12	26S	33E	639865	3547624	2418	250	200	50
C 02285 POD1	CUB	LE		1	4	4	03	26S	33E	636613	3548855	2657	220	220	0
C 02288	CUB	LE		4	4	4	03	26S	33E	636646	3548758	2667	220	180	40
C 02289	CUB	LE		4	4	4	03	26S	33E	636612	3548675*	2734	200	160	40
C 02290	CUB	LE		4	4	4	03	26S	33E	636538	3548770	2760	200	160	40
C 02286	CUB	LE		3	4	4	03	26S	33E	636470	3548714	2845	220	175	45
C 02287	C	LE		3	4	4	03	26S	33E	636427	3548708	2887	220		
C 02313	CUB	LE		2	3	3	26	25S	33E	636971	3552098*	3026	150	110	40

Average Depth to Water: **167 feet**

Minimum Depth: **110 feet**

Maximum Depth: **220 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 639055.178

Northing (Y): 3549903.8

Radius: 3250

*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.

3/19/21 10:27 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX C SAMPLING PROTOCOL & FIELD NOTES



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 in Farmington, New Mexico for analysis. A total of thirty-six (36) samples were collected for laboratory analysis 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 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 carrier 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 to be 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.

SUBJECT Seawolf 1-12 Fed 81H PROJECT PAGE
CLIENT Devon Energy DATE 2-10-21 BY NG
CHECKED BY

Weather: Fog/40° in morning

Arrive on site @ 7:58

Fill out SSA

Discuss work with MMX

Pre-marked dig Area

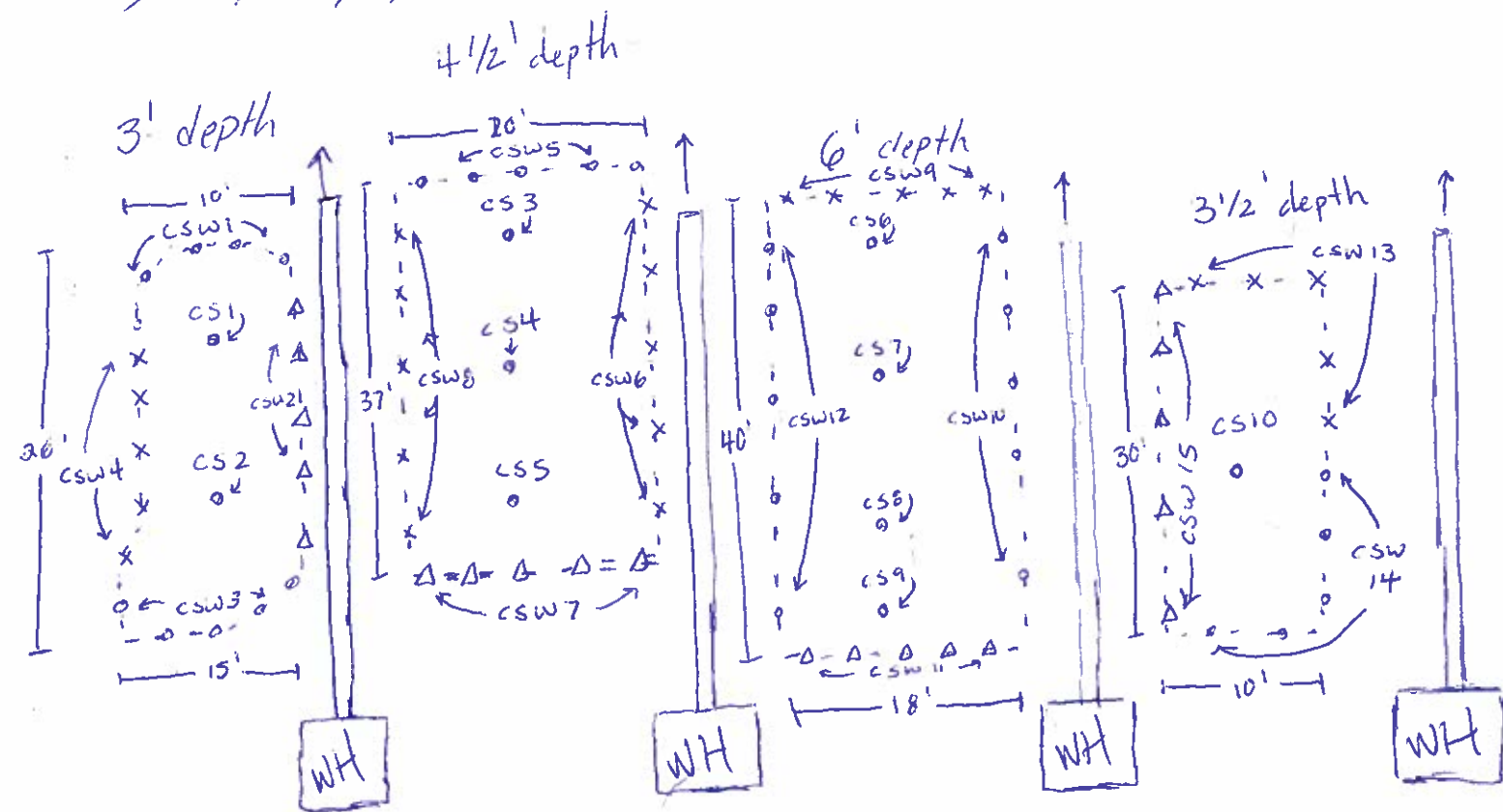
MMX Equipment: Komatsu PC200 Excavator, 2-Belly Pumps, 1-side dump
Continually run field screens to guide dig area

Collect samples: CSW-4, CS-5 (-3.5'), CSW-5
BG-1 (-2'), BG-1 (-3'), BG-1 (-4')

SMA Leave site @ 5:15

02/11/2021

arrived on location, met w/ MIMX personnel. Site had four open pits, ranging in depth from 3' to 8'. All open pits are located adjacent to a series of gas wells. Area was fenced off due to the vicinity of equipment.



A total of (24) samples were collected. Ten, (10) base samples CS1 - CS10, and fifteen (15) side wall samples (CSW1 - CSW15). All samples were screened for chlorides using a handheld electroconductivity meter (EC). Samples were packaged for analytical analysis.

APPENDIX D

LABORATORY ANALYTICAL REPORTS

Report to:
Ashley Maxwell



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf
Work Order: E011065
Job Number: 01058-0007
Received: 11/19/2020

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/25/20

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 NM009792018-1 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 11/25/20

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: Seawolf
Workorder: E011065
Date Received: 11/19/2020 10:00:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/19/2020 10:00:00AM, under the Project Name: Seawolf.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf	Reported: 11/25/20 08:29
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
L1-Surface	E011065-01A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L1-2'	E011065-02A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L1-3'	E011065-03A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L2-Surface	E011065-04A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L2-2'	E011065-05A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L2-3'	E011065-06A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L3-Surface	E011065-07A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L3-2'	E011065-08A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L3-3'	E011065-09A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L4-Surface	E011065-10A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L4-2'	E011065-11A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.
L4-3'	E011065-12A	Soil	11/13/20	11/19/20	Glass Jar, 4 oz.



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L1-Surface

E011065-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/23/20	
Toluene	ND	0.0250	1	11/23/20	11/23/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/23/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/23/20	
o-Xylene	ND	0.0250	1	11/23/20	11/23/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/23/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/23/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	78.7 %	70-130		11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	15800	500	20	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	5640	1000	20	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	55500	400	20	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L1-2'

E011065-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/23/20	
Toluene	ND	0.0250	1	11/23/20	11/23/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/23/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/23/20	
o-Xylene	ND	0.0250	1	11/23/20	11/23/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/23/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/23/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	80.1 %	70-130		11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	99.5 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	1660	100	5	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L1-3'

E011065-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Benzene	ND	0.0250	1	11/23/20	11/23/20	
Toluene	ND	0.0250	1	11/23/20	11/23/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/23/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/23/20	
o-Xylene	ND	0.0250	1	11/23/20	11/23/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/23/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/23/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.5 %	70-130	11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AC		Batch: 2048004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		89.6 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: NE		Batch: 2048002
Chloride	666	20.0	1	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L2-Surface

E011065-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/23/20	
Toluene	ND	0.0250	1	11/23/20	11/23/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/23/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/23/20	
o-Xylene	ND	0.0250	1	11/23/20	11/23/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/23/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/23/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.5 %	70-130	11/23/20	11/23/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	17900	500	20	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	8100	1000	20	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	60700	400	20	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L2-2'

E011065-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	79.9 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AC		Batch: 2048004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	86.3 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: NE		Batch: 2048002
Chloride	1450	20.0	1	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L2-3'

E011065-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.8 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AC		Batch: 2048004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		90.3 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: NE		Batch: 2048002
Chloride	263	20.0	1	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L3-Surface

E011065-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	79.8 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	3310	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	1620	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	11200	100	5	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L3-2'

E011065-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.2 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		91.8 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	2520	100	5	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L3-3'

E011065-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	79.7 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	1960	20.0	1	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L4-Surface

E011065-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2048001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	78.0 %	70-130		11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AC		Batch: 2048004	
Diesel Range Organics (C10-C28)	15700	250	10	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	6890	500	10	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: NE		Batch: 2048002	
Chloride	62800	400	20	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L4-2'

E011065-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		78.7 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AC		Batch: 2048004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		90.5 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: NE		Batch: 2048002
Chloride	2120	40.0	2	11/23/20	11/23/20	



Sample Data

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

Project Name: Seawolf
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
11/25/2020 8:29:51AM

L4-3'

E011065-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Benzene	ND	0.0250	1	11/23/20	11/24/20	
Toluene	ND	0.0250	1	11/23/20	11/24/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/24/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/24/20	
o-Xylene	ND	0.0250	1	11/23/20	11/24/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2048001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.2 %	70-130	11/23/20	11/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AC		Batch: 2048004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
<i>Surrogate: n-Nonane</i>						
		83.2 %	50-200	11/23/20	11/23/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: NE		Batch: 2048002
Chloride	3250	40.0	2	11/23/20	11/23/20	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	11/25/2020 8:29:51AM

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 (2048001-BLK1)

Prepared: 11/23/20 Analyzed: 11/23/20

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

LCS (2048001-BS1)

Prepared: 11/23/20 Analyzed: 11/23/20

Benzene	4.76	0.0250	5.00		95.3	70-130			
Toluene	4.89	0.0250	5.00		97.7	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
Total Xylenes	14.4	0.0250	15.0		95.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2048001-MS1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Benzene	5.27	0.0250	5.00	ND	105	54-133			
Toluene	5.40	0.0250	5.00	ND	108	61-130			
Ethylbenzene	5.35	0.0250	5.00	ND	107	61-133			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
o-Xylene	5.23	0.0250	5.00	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2048001-MSD1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Benzene	5.11	0.0250	5.00	ND	102	54-133	3.09	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	3.44	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	3.33	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.43	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	3.70	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.52	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	11/25/2020 8:29:51AM

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 (2048001-BLK1)

Prepared: 11/23/20 Analyzed: 11/23/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.9	70-130			

LCS (2048001-BS2)

Prepared: 11/23/20 Analyzed: 11/23/20

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.44		8.00		80.5	70-130			

Matrix Spike (2048001-MS2)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.34		8.00		79.2	70-130			

Matrix Spike Dup (2048001-MSD2)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	4.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.26		8.00		78.2	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	11/25/2020 8:29:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AC

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 (2048004-BLK1)

Prepared: 11/23/20 Analyzed: 11/23/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			

LCS (2048004-BS1)

Prepared: 11/23/20 Analyzed: 11/23/20

Diesel Range Organics (C10-C28)	434	25.0	500		86.8	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

Matrix Spike (2048004-MS1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Diesel Range Organics (C10-C28)	18000	500	500	15800	451	38-132			M2
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2048004-MSD1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Diesel Range Organics (C10-C28)	14400	500	500	15800	NR	38-132	22.3	20	M2, R3
Surrogate: n-Nonane	55.4		50.0		111	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	11/25/2020 8:29:51AM

Anions by EPA 300.0/9056A

Analyst: NE

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 (2048002-BLK1)

Prepared: 11/23/20 Analyzed: 11/23/20

Chloride	ND	20.0
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LCS (2048002-BS1)

Prepared: 11/23/20 Analyzed: 11/23/20

Chloride	254	20.0	250	102	90-110
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Matrix Spike (2048002-MS1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Chloride	53100	400	250	55500	NR	80-120	M4
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Matrix Spike Dup (2048002-MSD1)

Source: E011065-01 Prepared: 11/23/20 Analyzed: 11/23/20

Chloride	56000	400	250	55500	173	80-120	5.31	20	M4
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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	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	11/25/20 08:29

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.
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 1 of 2

Client: <u>SMA / Devon</u>				Bill To: <u>Devon</u>				Lab Use Only				TAT		EPA Program					
Project: <u>Seawolf</u>				Attention: <u>Devon</u>				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA			
Project Manager: <u>Ashley Maxwell</u>				Address:				<u>RE011005</u>		<u>010580007</u>									
Address: <u>201 S. Malagueño</u>				City, State, Zip				Analysis and Method								State			
City, State, Zip: <u>Carlsbad, NM 88500</u>				Phone:				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	NM	CO	UT	AZ
Email: <u>Ashley & Sebastian</u>				Email:												<input checked="" type="checkbox"/>			
Report due by:															TX	OK			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks													
11:00	11/13	Soil	1-402	L1-Surface	1	X													
11:05				L1-2'	2														
11:10				L1-3'	3														
11:15				L2-Surface	4														
11:20				L2-2'	5														
11:25				L2-3'	6														
11:30				L3-Surface	7														
11:35				L3-2'	8														
11:40				L3-3'	9														
11:45				L4-Surface	10														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 6 °C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<u>[Signature]</u>		11/18/20	2:33	<u>[Signature]</u>		11/18/20	1433	Received on ice: <input checked="" type="checkbox"/> Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
<u>[Signature]</u>		11/18/2020	1640	<u>[Signature]</u>		11/19/20	10:00												
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.																			


 5795 US Highway 64, Farmington, NM 87401 Ph (505) 632-1881 Fx (505) 632-1865 envirotech-inc.com
 24 Hour Emergency Response Phone (800) 362-1879 labadmin@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 11/19/2020 4:00:39PM

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:	11/19/20 10:00	Work Order ID:	E011065
Phone:	(505) 325-7535	Date Logged In:	11/19/20 13:12	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	11/25/20 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Fed Ex**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

Email - Ashley and Sebastian

Email - Ashley and Sebastian

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 Fed 81 H

Work Order: E102058

Job Number: 01058-0007

Received: 2/26/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/21

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 NM009792018-1 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 3/2/21

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: Seawolf 1-12 Fed 81 H
Workorder: E102058
Date Received: 2/26/2021 12:15:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2021 12:15:00PM, under the Project Name: Seawolf 1-12 Fed 81 H.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 Fed 81 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	03/02/21 12:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E102058-01A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS2	E102058-02A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS3	E102058-03A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS4	E102058-04A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS5	E102058-05A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS6	E102058-06A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS7	E102058-07A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS8	E102058-08A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS9	E102058-09A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS10	E102058-10A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW1	E102058-11A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW2	E102058-12A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW3	E102058-13A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW4	E102058-14A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW5	E102058-15A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW6	E102058-16A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW7	E102058-17A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW8	E102058-18A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW9	E102058-19A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW10	E102058-20A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW11	E102058-21A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW12	E102058-22A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW13	E102058-23A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW14	E102058-24A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.



Case Narative:

Inclement weather impacted FedEx from one-day delivery service. Samples were held in cold storage by FedEx due to inclement weather. Sample hold time and temperature were impacted by FedEx delayed shipment. Sample analysis was performed per client request. See COC & SRC for sample hold time and recieved temperature.



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS1

E102058-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	98.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS2

E102058-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS3

E102058-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS4

E102058-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	99.1 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	101 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS5

E102058-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	84.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS6

E102058-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	84.3 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS7

E102058-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	89.2 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS8

E102058-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.5 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>		93.0 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS9

E102058-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.8 %</i>	<i>70-130</i>		<i>02/26/21</i>	<i>02/27/21</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>95.5 %</i>	<i>70-130</i>		<i>02/26/21</i>	<i>02/27/21</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	<i>96.7 %</i>	<i>50-200</i>		<i>02/26/21</i>	<i>02/26/21</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS10

E102058-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW1

E102058-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW2

E102058-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW3

E102058-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW4

E102058-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW5

E102058-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW6

E102058-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>		97.7 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW7

E102058-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	63.3 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW8

E102058-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	74.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW9

E102058-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW10

E102058-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	85.6 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW11

E102058-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109034	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	99.2 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109033	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	82.1 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109039	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW12

E102058-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW13

E102058-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109034	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109033	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	84.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109039	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW14

E102058-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
		88.4 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109034-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2109034-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2109034-MS1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.64	0.0250	5.00	ND	92.8	54-133			
Toluene	4.93	0.0250	5.00	ND	98.5	61-130			
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133			
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131			
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2109034-MSD1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.65	0.0250	5.00	ND	93.0	54-133	0.156	20	
Toluene	4.90	0.0250	5.00	ND	98.0	61-130	0.603	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	0.239	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	0.194	20	
o-Xylene	4.95	0.0250	5.00	ND	98.9	63-131	0.104	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	0.0940	20	
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109037-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

LCS (2109037-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.86	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.9	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
o-Xylene	4.94	0.0250	5.00		98.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike (2109037-MS1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.50	0.0250	5.00	ND	90.0	54-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133			
p,m-Xylene	9.60	0.0500	10.0	ND	96.0	63-131			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

Matrix Spike Dup (2109037-MSD1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.43	0.0250	5.00	ND	88.6	54-133	1.60	20	
Toluene	4.72	0.0250	5.00	ND	94.4	61-130	2.10	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.10	20	
p,m-Xylene	9.40	0.0500	10.0	ND	94.0	63-131	2.07	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	2.08	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131	2.08	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109034-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

LCS (2109034-BS2)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2109034-MS2)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			

Matrix Spike Dup (2109034-MSD2)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	1.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		8.00		102	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109037-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

LCS (2109037-BS2)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike (2109037-MS2)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2109037-MSD2)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.5	70-130	0.748	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109033-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS (2109033-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	520	25.0	500		104	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2109033-MS1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	481	25.0	500	ND	96.3	38-132			
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			

Matrix Spike Dup (2109033-MSD1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	489	25.0	500	ND	97.8	38-132	1.58	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109036-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS (2109036-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	547	25.0	500		109	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2109036-MS1)

Source: E102058-11 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	540	25.0	500	ND	108	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2109036-MSD1)

Source: E102058-11 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	538	25.0	500	ND	108	38-132	0.382	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109038-BLK1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride ND 20.0

LCS (2109038-BS1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride 246 20.0 250 98.3 90-110

Matrix Spike (2109038-MS1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride 248 20.0 250 ND 99.2 80-120

Matrix Spike Dup (2109038-MSD1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride 246 20.0 250 ND 98.3 80-120 0.916 20



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109039-BLK1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	ND	20.0							
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LCS (2109039-BS1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	247	20.0	250		98.6	90-110			
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Matrix Spike (2109039-MS1)

Source: E102058-21 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	247	20.0	250	ND	98.8	80-120			
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Matrix Spike Dup (2109039-MSD1)

Source: E102058-21 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	249	20.0	250	ND	99.4	80-120	0.658	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 Fed 81 H	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	03/02/21 12:30

- 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

01058-0007

Client: <u>SMA</u> Project: <u>Seawolf 1-12 Fed B/H</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. Halagueno St.</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: _____					Lab Use Only		TAT		EPA Program		
										Lab WO# <u>PE 102058</u>	Job Number <u>102058</u>	1D	3D	RCRA	CWA	SDWA
Analysis and Method										State						
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX			NM	CO	UT	AZ		
											<input checked="" type="checkbox"/>					
											TX	OK				
										Remarks						

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number
11:00	2/11/21	Soil	1-402	CS1	1
11:05				CS2	2
11:10				CS3	3
11:15				CS4	4
11:20				CS5	5
11:25				CS6	6
11:30				CS7	7
11:35				CS8	8
11:40				CS9	9
11:45				CS10	10

Additional Instructions:

I, (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: Sebastian Orozco

Relinquished by: (Signature) Sebastian J. Date: 2/15/21 Time: 2:30 Received by: (Signature) [Signature] Date: 2-15-21 Time: 1430

Relinquished by: (Signature) [Signature] Date: 2-15-21 Time: 1640 Received by: (Signature) [Signature] Date: 2/20/21 Time: 12:15

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Lab Use Only
Received on ice: Y / N

T1 10.2 T2 10.7 T3 10.8

AVG Temp °C 10.6

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

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.

Chain of Custody

Client: SMA				Bill To				Lab Use Only				TAT		EPA Program									
Project: Seawolf 1-12 Fed 814				Attention: Devon				Lab WO# PE102058		Job Number 190260000		1D	3D	RCRA	CWA	SDWA							
Project Manager: Ashley Maxwell				Address:				City, State, Zip		Phone:		Email:		Report due by:		State							
Time Sampled				Date Sampled				Matrix				No Containers				Sample ID				Lab Number			
11:50				2/11/21				Soil				1402				CSW1				11			
11:55																CSW2				12			
12:00																CSW3				13			
12:05																CSW4				14			
12:10																CSW5				15			
12:15																CSW6				16			
12:20																CSW7				17			
12:25																CSW8				18			
12:30																CSW9				19			
12:35																CSW10				20			
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 6 °C on subsequent days.																							
Relinquished by: (Signature)				Date				Time				Received by: (Signature)				Date				Time			
[Signature]				2/15/21				2:30				[Signature]				2:15:21				1430			
Relinquished by: (Signature)				Date				Time				Received by: (Signature)				Date				Time			
[Signature]				2:15:21				16:40				[Signature]				2/20/21				12:15			
Relinquished by: (Signature)				Date				Time				Received by: (Signature)				Date				Time			
[Signature]												[Signature]											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Chain of Custody

Client: SMA Project: Seawolf I-12 Fed RIH Project Manager: Ashley Maxwell Address: City, State, Zip Phone: Email: Report due by:		Bill To Attention: Devon Address: City, State, Zip Phone: Email:		Lab Use Only						TAT		EPA Program													
				Lab WO# PE102058 Am 2/26/21		Job Number 010580057		Analysis and Method		State															
				DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC - NM		BGDOC - TX		NM CO UT AZ		TX OK		Remarks	
				Time Sampled		Date Sampled		Matrix		No Containers		Sample ID				Lab Number									
				12:40		2/11/21		Soil		1-4oz		CSW11				21									
				12:45								CSW12				22									
				12:50								CSW13				23									
				12:55								CSW14				24									
Additional Instructions:																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 6 °C on subsequent days.									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only Received on ice: Y / N T1 10.2 T2 10.7 T3 10.8 AVG Temp °C 10.6									
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 Analytical Laboratory

Printed: 2/26/2021 1:41:44PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	02/26/21 12:15	Work Order ID:	E102058
Phone:	(505) 325-7535	Date Logged In:	02/17/21 16:16	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	03/01/21 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? No

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: Fed ExComments/Resolution

Samples were held in cold storage by FedEx Express due to inclement weather. Samples HD and Temp were impacted by FedEx Express delayed shipment. Client requested samples to be run.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? No

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 No

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: 10.6°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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: Seawolf 1-12 Fed 81 H

Work Order: E102058

Job Number: 01058-0007

Received: 2/26/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/21

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 NM009792018-1 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 3/2/21

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: Seawolf 1-12 Fed 81 H
Workorder: E102058
Date Received: 2/26/2021 12:15:00PM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2021 12:15:00PM, under the Project Name: Seawolf 1-12 Fed 81 H.

The analytical test results summarized in this report with the Project Name: Seawolf 1-12 Fed 81 H 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
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Cell: 775-287-1762
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Laboratory Administrator
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Alexa Michaels
Sample Custody Officer
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	03/02/21 12:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E102058-01A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS2	E102058-02A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS3	E102058-03A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS4	E102058-04A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS5	E102058-05A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS6	E102058-06A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS7	E102058-07A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS8	E102058-08A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS9	E102058-09A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CS10	E102058-10A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW1	E102058-11A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW2	E102058-12A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW3	E102058-13A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW4	E102058-14A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW5	E102058-15A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW6	E102058-16A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW7	E102058-17A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW8	E102058-18A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW9	E102058-19A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW10	E102058-20A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW11	E102058-21A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW12	E102058-22A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW13	E102058-23A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.
CSW14	E102058-24A	Soil	02/11/21	02/26/21	Glass Jar, 4 oz.



Case Narative:

Inclement weather impacted FedEx from one-day delivery service. Samples were held in cold storage by FedEx due to inclement weather. Sample hold time and temperature were impacted by FedEx delayed shipment. Sample analysis was performed per client request. See COC & SRC for sample hold time and recieved temperature.



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS1

E102058-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	98.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS2

E102058-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS3

E102058-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS4

E102058-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.1 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS5

E102058-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	84.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS6

E102058-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.1 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>		84.3 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS7

E102058-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.8 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	89.2 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS8

E102058-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	93.0 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS9

E102058-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.8 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2109037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.5 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2109036	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>	96.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2109038	
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CS10

E102058-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW1

E102058-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW2

E102058-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW3

E102058-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW4

E102058-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW5

E102058-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW6

E102058-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	97.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW7

E102058-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	63.3 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW8

E102058-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	74.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW9

E102058-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW10

E102058-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Benzene	ND	0.0250	1	02/26/21	02/27/21	
Toluene	ND	0.0250	1	02/26/21	02/27/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/27/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/27/21	
o-Xylene	ND	0.0250	1	02/26/21	02/27/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109037
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		02/26/21	02/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109036
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	85.6 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109038
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW11

E102058-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	82.1 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW12

E102058-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW13

E102058-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
	84.4 %	50-200		02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



Sample Data

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

Project Name: Seawolf 1-12 Fed 81 H
Project Number: 01058-0007
Project Manager: Ashley Maxwell

Reported:
3/2/2021 12:30:43PM

CSW14

E102058-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Benzene	ND	0.0250	1	02/26/21	02/26/21	
Toluene	ND	0.0250	1	02/26/21	02/26/21	
Ethylbenzene	ND	0.0250	1	02/26/21	02/26/21	
p,m-Xylene	ND	0.0500	1	02/26/21	02/26/21	
o-Xylene	ND	0.0250	1	02/26/21	02/26/21	
Total Xylenes	ND	0.0250	1	02/26/21	02/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2109034
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/21	02/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	02/26/21	02/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2109033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/21	02/26/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/26/21	02/26/21	
<i>Surrogate: n-Nonane</i>						
		88.4 %	50-200	02/26/21	02/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2109039
Chloride	ND	20.0	1	02/26/21	03/01/21	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109034-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2109034-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2109034-MS1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.64	0.0250	5.00	ND	92.8	54-133			
Toluene	4.93	0.0250	5.00	ND	98.5	61-130			
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133			
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131			
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2109034-MSD1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.65	0.0250	5.00	ND	93.0	54-133	0.156	20	
Toluene	4.90	0.0250	5.00	ND	98.0	61-130	0.603	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	0.239	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	0.194	20	
o-Xylene	4.95	0.0250	5.00	ND	98.9	63-131	0.104	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	0.0940	20	
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109037-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

LCS (2109037-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.86	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.9	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
o-Xylene	4.94	0.0250	5.00		98.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike (2109037-MS1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.50	0.0250	5.00	ND	90.0	54-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133			
p,m-Xylene	9.60	0.0500	10.0	ND	96.0	63-131			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

Matrix Spike Dup (2109037-MSD1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Benzene	4.43	0.0250	5.00	ND	88.6	54-133	1.60	20	
Toluene	4.72	0.0250	5.00	ND	94.4	61-130	2.10	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.10	20	
p,m-Xylene	9.40	0.0500	10.0	ND	94.0	63-131	2.07	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	2.08	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131	2.08	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109034-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

LCS (2109034-BS2)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2109034-MS2)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			

Matrix Spike Dup (2109034-MSD2)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	1.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		8.00		102	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2109037-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

LCS (2109037-BS2)

Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike (2109037-MS2)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2109037-MSD2)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 02/26/21

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.5	70-130	0.748	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109033-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS (2109033-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	520	25.0	500		104	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2109033-MS1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	481	25.0	500	ND	96.3	38-132			
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			

Matrix Spike Dup (2109033-MSD1)

Source: E102085-01 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	489	25.0	500	ND	97.8	38-132	1.58	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109036-BLK1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	50-200			

LCS (2109036-BS1)

Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	547	25.0	500		109	38-132			
Surrogate: <i>n</i> -Nonane	53.8		50.0		108	50-200			

Matrix Spike (2109036-MS1)

Source: E102058-11 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	540	25.0	500	ND	108	38-132			
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2109036-MSD1)

Source: E102058-11 Prepared: 02/26/21 Analyzed: 02/26/21

Diesel Range Organics (C10-C28)	538	25.0	500	ND	108	38-132	0.382	20	
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109038-BLK1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	ND	20.0							
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LCS (2109038-BS1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	246	20.0	250		98.3	90-110			
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Matrix Spike (2109038-MS1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	248	20.0	250	ND	99.2	80-120			
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Matrix Spike Dup (2109038-MSD1)

Source: E102058-01 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	246	20.0	250	ND	98.3	80-120	0.916	20	
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QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Seawolf 1-12 Fed 81 H	Reported:
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	3/2/2021 12:30:43PM

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 (2109039-BLK1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	ND	20.0							
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LCS (2109039-BS1)

Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	247	20.0	250		98.6	90-110			
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Matrix Spike (2109039-MS1)

Source: E102058-21 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	247	20.0	250	ND	98.8	80-120			
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Matrix Spike Dup (2109039-MSD1)

Source: E102058-21 Prepared: 02/26/21 Analyzed: 03/01/21

Chloride	249	20.0	250	ND	99.4	80-120	0.658	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 Fed 81 H	
201 S Halagueno St.	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	03/02/21 12:30

- 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

01058-0007

Client: <u>SMA</u> Project: <u>Seawolf 1-12 Fed B/H</u> Project Manager: <u>Ashley Maxwell</u> Address: <u>201 S. Halagueno St.</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: _____					Lab Use Only Lab WO# <u>PE 102058</u> Job Number <u>102058</u> Analysis and Method <u>AM-2/20/21</u>				TAT 1D 3D		EPA Program RCRA CWA SDWA			
											State NM CO UT AZ <input checked="" type="checkbox"/> TX <input type="checkbox"/> OK								
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks					
11:00	2/11/21	Soil	1-402	CS1	1							X							
11:05				CS2	2														
11:10				CS3	3														
11:15				CS4	4														
11:20				CS5	5														
11:25				CS6	6														
11:30				CS7	7														
11:35				CS8	8														
11:40				CS9	9														
11:45				CS10	10														
Additional Instructions:																			
I, (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>Sebastian Orozco</u>																			
Relinquished by: (Signature) <u>Sebastian O.</u> Date <u>2/15/21</u> Time <u>2:30</u> Received by: (Signature) <u>[Signature]</u> Date <u>2-15-21</u> Time <u>1430</u>																			
Relinquished by: (Signature) <u>[Signature]</u> Date <u>2-15-21</u> Time <u>1640</u> Received by: (Signature) <u>[Signature]</u> Date <u>2/20/21</u> Time <u>12:15</u>																			
Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other <u>S</u> 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.																			

Chain of Custody

Client: SMA Project: Seawolf 1-12 Feb 814 Project Manager: Ashley Maxwell Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Report due by: _____				Bill To Attention: Devon Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Lab Use Only</th> <th colspan="2">TAT</th> <th colspan="4">EPA Program</th> </tr> <tr> <td colspan="4">Lab WO# PE102058</td> <td colspan="4">Job Number 190260001</td> <td>1D</td> <td>3D</td> <td>RCRA</td> <td>CWA</td> <td>SDWA</td> </tr> <tr> <td colspan="8">Analysis and Method Am 2/16/21</td> <td colspan="6">State</td> </tr> <tr> <td rowspan="2">DRO/ORO by 8015</td> <td rowspan="2">GRO/DRO by 8015</td> <td rowspan="2">BTEX by 8021</td> <td rowspan="2">VOC by 8260</td> <td rowspan="2">Metals 6010</td> <td rowspan="2">Chloride 300.0</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">BGDOC - NM</td> <td rowspan="2">BGDOC - TX</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td>NM</td> <td>CO</td> <td>UT</td> <td>AT</td> </tr> <tr> <td>TX</td> <td>OK</td> <td></td> <td></td> </tr> <tr> <td colspan="12"></td> <td colspan="2">Remarks</td> </tr> </table>										Lab Use Only								TAT		EPA Program				Lab WO# PE102058				Job Number 190260001				1D	3D	RCRA	CWA	SDWA	Analysis and Method Am 2/16/21								State						DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX				NM	CO	UT	AT	TX	OK															Remarks	
Lab Use Only								TAT		EPA Program																																																																																			
Lab WO# PE102058				Job Number 190260001				1D	3D	RCRA	CWA	SDWA																																																																																	
Analysis and Method Am 2/16/21								State																																																																																					
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX				NM	CO	UT	AT																																																																													
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																																																																																								
11:50	2/11/21	Soil	1402	CSW1	11																																																																																								
11:55				CSW2	12																																																																																								
12:00				CSW3	13																																																																																								
12:05				CSW4	14																																																																																								
12:10				CSW5	15																																																																																								
12:15				CSW6	16																																																																																								
12:20				CSW7	17																																																																																								
12:25				CSW8	18																																																																																								
12:30				CSW9	19																																																																																								
12:35				CSW10	20																																																																																								
Additional Instructions:																																																																																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 6 °C on subsequent days.																																																																																													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																																																																																					
<i>[Signature]</i>		2/15/21	2:30	<i>[Signature]</i>		2/15/21	1430	Received on ice: Y / (N)																																																																																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																																																																																						
<i>[Signature]</i>		2/15/21	1640	<i>[Signature]</i>		2/20/21	12:15	T1 10.2 T2 10.7 T3 10.8																																																																																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 10.6																																																																																					
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.																																																																																													

Chain of Custody

Client: <u>SMA</u>				Bill To				Lab Use Only				TAT		EPA Program			
Project: <u>Seawolf 1-12 Fed 814</u>				Attention: <u>Devon</u>				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA	
Project Manager: <u>Ashley Maxwell</u>				Address:				<u>PE102058</u>		<u>010580057</u>							
Address:				City, State, Zip				<u>Am 2/26/21</u>		Analysis and Method		State					
City, State, Zip				Phone:								NM CO UT AZ					
Phone:				Email:								TX OK					
Email:																	
Report due by:																	
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	
12:40	2/11/21	Soil	1-4oz	CSW11	21												
12:45				CSW12	22												
12:50				CSW13	23												
12:55				CSW14	24												
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
<u>[Signature]</u>		2/15/21	2:30	<u>[Signature]</u>		2-15-21	1430	Received on ice: Y <u>(N)</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 <u>10.2</u> T2 <u>10.7</u> T3 <u>10.8</u>									
<u>[Signature]</u>		2-15-21	1440	<u>[Signature]</u>		2/15/21	12:15										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>10.6</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 Analytical Laboratory

Printed: 2/26/2021 1:41:44PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Souder Miller Associates - Carlsbad	Date Received:	02/26/21 12:15	Work Order ID:	E102058
Phone:	(505) 325-7535	Date Logged In:	02/17/21 16:16	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	03/01/21 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? No

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: Fed Ex**Comments/Resolution**

Samples were held in cold storage by FedEx Express due to inclement weather. Samples HD and Temp were impacted by FedEx Express delayed shipment. Client requested samples to be run.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? No

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 No

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: 10.6°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.

APPENDIX E

EXCAVATION PHOTO LOG

SE

S

SW

W

Received by OCD: 4/6/2021 2:39:49 PM

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☼ 211°S (T) ● 32.079462, -103.533142 ±3 m ▲ 989 m



Released to Imaging: 7/1/2021 9:03:57 AM

10 Feb 2021, 16:45:06

210 240 270
☉ 212°S (T) ● 32.079338, -103.533264 ±6 m ▲ 991 m

210 240 270 300
☉ 211°S (T) ● 32.079338, -103.533264 ±6 m ▲ 991 m



☉ 261°W (T) ● 32.079265, -103.533035 ±3 m ▲ 990 m



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 23163

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 23163
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
kcollins	None	7/1/2021