

July 18, 2024

Dale Woodall
Environmental Professional
Devon Energy Production Company
205 E Bender Road # 150
Hobbs, New Mexico 88240

Subject: Remediation Closure Report

Devon Energy Production Company Seawolf 1 12 Federal 91H Release Unit D, Section 1, T26S, R33E Lea County, New Mexico Date of Release: 9/7/2023 Incident No.: nAPP2325072650

CEC Project 335-562

Dear Mr. Woodall:

Civil & Environmental Consultants, Inc. (CEC) is submitting this Remediation Closure Report in connection with the September 7, 2023, release at the Seawolf 1 12 Federal 91H well (Site). CEC was contracted by Devon to assess and characterize a release of produced water and crude oil at the subject Site. This Remediation Closure Report is being submitted to document site characterization and remedial actions that were completed in accordance with 19.15.29.12 of the New Mexico Administrative Code (NMAC) and to support Devon's request for Remediation Closure Approval (C-141-v-Remediation).

1.0 BACKGROUND

According to the Release Notification filed with the State of New Mexico Form C-141, a release of produced water and crude oil occurred on September 7, 2023, at the Seawolf 1 12 Federal 91H well pad located in Public Land Survey System (PLSS) Unit Letter D, Section 1, Township 26 South, Range 33 East, in Lea County, New Mexico. The location of the well pad is shown on Figure 1.

The layout of the Site including the approximate release location and area of observed surficial impacts based on visual observation of staining and ponded water is shown on Figure 2. The approximate release point was at coordinates 32.0791865, -103.5335268. According to the initial Form C-141 Release Notification, the flowline developed a pinhole below grade approximately 15 feet from the wellhead. An estimated 51 barrels (bbls) of produced water and 1 bbl of crude oil were released to the well pad. The well was shut in, and pressure was bled off the flowline to stop the leak. Approximately 29 bbls of produced water and 1 bbl of crude oil were recovered as part of the initial response action. The spill was reported on September 11, 2023, and assigned an incident number nAPP2325072650.

The initial Form C-141 Release Notification that includes a description of initial response actions that were taken by Devon, and also OCD's directive in response to the notification, are included in Appendix A.

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2.0 DESKTOP REVIEW

A desktop review was performed by CEC to (a) determine the wellhead protection area and distance to the nearest water source as required under 19.15.29.11 NMAC, (b) determine the distance to the nearest watercourse as required under 19.15.29.11 NMAC (c) preliminarily identify distances to sensitive receptors listed under 19.15.29.12 Section C of NMAC, and (d) determine (if possible, based on published information) depth to groundwater in the area.

A map identifying "Sensitive Receptors" in the area is provided as Figure B-1 in Appendix B. The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance. Similarly, the site is not located within a 100-year floodplain, nor does it overlie a subsurface mine. Further, the Site is not located within the prescribed distances of the various sensitive receptors listed under Section C (4.) of 19.15.29.12 NMAC. The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineer (NMOSE) water rights reporting system, a temporary well (Temporary Well C-4628) was installed approximately 0.39 miles east of the Site in June 2022. The location of Temporary Well C-4628 is shown on Figure B-1. Temporary Well C-4628 was drilled to a depth of approximately 55 feet below the ground surface (bgs). The well was determined to be dry after 24 hours. Depth to groundwater in the vicinity of the Site is therefore determined to be greater than 51 feet bgs. The well record and log are included in Appendix C.

3.0 REGULATORY LIMITS

Remediation Closure Criteria for soil impacted by produced water and crude oil are established in Table 1, Subsection E of 19.15.29.12 NMAC. Based on the information obtained for the desktop survey and the groundwater depth of >50 feet, the remediation criteria for this Site are as follows:

Constituent	Remediation
	Closure Criteria
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Total BTEX	50 mg/kg
Benzene	10 mg/kg

Prior to mobilization, CEC confirmed that no additional constituents of concern were required to be analyzed with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division. CEC also notified OCD via email of their intent to collect site characterization and confirmation soil samples prior to performing field work in accordance with Section D of 19.15.29.12 NMAC. Records documenting the required OCD notifications are included in Appendix D.

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4.0 FIELD SITE ASSESSMENT ACTIVITIES

4.1 PHASE 1 SITE CHARACTERIZATION

CEC conducted initial site assessment activities on September 19, 2023, during which thirteen (13) exploratory test pits (SW 91H-1 through SW 91H-13) were installed. The locations of the test pit are shown on Figure 2. In general, excavator refusal was encountered at approximately two to five feet below ground surface (bgs) due to the presence of caliche. While advancing the test pits, samples were collected at one-foot intervals for field screening. Each sample was screened for soil electrical conductivity (EC) using a FieldScout Soil Conductivity Probe with automatic temperature compensation, Total Petroleum Hydrocarbons (TPH) using a Dexsil PetroFLAG hydrocarbon analyzer, and field chloride using Quantab® titration strips. CEC's standard operation procedures for conducting field screening are included in Appendix E. The results of the field screening are summarized on Table 1.

A total of twenty-eight (28) samples were collected from the test pits and submitted for laboratory analytical analysis to Eurofins Environment Testing South Central laboratory (Eurofins) in Midland, Texas. The soil samples were analyzed for BTEX (by Method 8021B), TPH (by Method 8015B), and chloride (by EPA Method 300.0). Analytical results for the samples that were collected during the Phase 1 site characterization are summarized on Table 2. The corresponding laboratory analytical reports are included in Appendix F.

Referring to Table 2, three (3) of the samples that were collected (SW 91H-3 (0-1'), SW 91H-5 (0-1'), and SW 91H-9 (2-3')) were found to contain TPH (GRO+DRO) at concentrations in excess of the Remediation Closure Criteria. Sample SW 91H-3 (0-1') was also found to contain TPH (GRO+DRO+MRO) at a concentration in excess of the Remediation Closure Criteria.

Following review of the results of the initial site characterization sampling, it was determined that additional delineation was warranted to meet the delineation requirements of 19.15.29.13 NMAC.

4.2 PHASE 2 SITE CHARACTERIZATION

Phase 2 of the site characterization was conducted on October 30, 2023. During Phase 2, seven (7) exploratory test pits (SW 91H-14 through SW 91H-20) were installed to further delineate the extent of soil contamination. The locations of the test pits are shown on Figure 2.

Six of the seven test pits encountered refusal on hard caliche at depths between 2 and 4 feet bgs. Field screening was conducted following the procedures outlined in Section 4.1, and the results are summarized on Table 1.

Based on the field screening results, fourteen (14) soil samples were submitted to Eurofins for laboratory analysis. Analytical results for the soil samples that were collected during the Phase 2 site characterization are summarized on Table 2. Analytical reports are included in Appendix F.

As shown on Table 2, none of the fourteen (14) soil samples collected from the Phase 2 test pits contained constituents of concern at concentrations in excess of the Remediation Closure Criteria. Further, the twenty (20) test pits installed during the Phase 1 and Phase 2 site characterization allowed for successful horizontal and vertical delineation of contamination as required under 19.15.29.12.

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5.0 SITE CHARACTERIZATION FINDINGS AND DEVELOPMENT OF REMEDIATION PLAN

Site characterization investigations identified an approximately 2,980-square-foot area over which Remediation Closure Criteria were exceeded in the soil. Within this area, the contaminated soil that exceeded Remediation Closure Criteria was found to extend to depths ranging from 1 to 3 feet. A map showing areas targeted for remediation and projected remediation depths is shown on Figure 3. Based on results of site characterization, the total volume of soil to be removed was estimated at 400 cubic yards.

6.0 REMEDIATION ACTIVITIES

Initial remediation activities were completed between January 29 and February 1, 2024. In accordance with NMOCD regulatory guidelines, impacted soil affected above the Remediation Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal (R360 Antelope Ridge). While undertaking the excavation, a FieldScout Soil Conductivity Probe with automatic temperature compensation and Dexsil PetroFLAG hydrocarbon analyzer were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were expanded until field tests and field observations indicated that constituents of concern were less than the applicable remediation criteria. The results of the field screening that was conducted to support remedial actions are presented on Table 3. Soil screening locations are shown on Figure 4. Photographs documenting the soil remedial efforts are included in the photographic log in Appendix G. Approximately 290 cubic yards of soil were removed over this period.

Upon making a determination based on field observations and field screening that there was a high likelihood that remediation goals had been achieved, CEC collected representative five-point composite post-excavation confirmation soil samples representative of each 200 square-feet of the sidewalls and floor of the excavated area pursuant to Subsection C of 19.15.29.12 NMAC.

A total of twenty-one (21) post-excavation confirmation soil samples were collected. Four composite samples were collected from the sidewalls (SW 91H-Sidewall 1 through SW 91H-Sidewall 4). Seventeen samples were collected from the floor of the excavation (SW 91H-Bottom 1 through SW 91H-Bottom 17). No wet or discolored areas were encountered, and discrete grab samples were not required. The area represented by each confirmation sample is shown on Figure 4. Confirmation samples were submitted for laboratory analytical analysis to Eurofins Environment Testing South Central laboratory (Eurofins) in Midland, Texas. The soil samples were analyzed for BTEX (by Method 8021B), TPH (by Method 8015B), and chloride (by EPA Method 300.0).

The results of the confirmation soil sampling are summarized on Table 4. Analytical reports are included in Appendix F. As shown on Table 4, one floor sample (SW 91H-Bottom 8) was found to contain TPH (GRO+DRO) and TPH (GRO+DRO+MRO) at concentrations in excess of the respective Remediation Closure Criteria.

On February 21, 2024, additional remediation activities were conducted in the area of SW 91H-Bottom 8. Impacted soil affected above the Remediation Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste disposal facility (R360 Antelope Ridge). The floor of the excavation was deepened until field observations and field screening indicated a high likelihood that remediation goals had been achieved (to approximately 6 feet bgs). Approximately 21 additional cubic yards of soil were excavated from this area. CEC collected one composite sample (SW 91H-Bottom 8-2)

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from the floor of the excavated area. The results of the additional confirmation soil sampling are presented on Table 4 (the sample dated February 21, 2024), and the analytical report is included in Appendix F. As shown on Table 4, none of the constituents of concern were detected at concentrations in excess of the Remediation Closure Criteria. Photographs documenting the additional remediation activities are included in Appendix G.

7.0 RESTORATION ACTIVITIES

As the spill area is actively used for oil and gas production, the areas where excavation was performed to remediate the Site were restored by backfilling with clean fill to stabilize the disturbed areas and return them to the existing grade, and provide a soil cover that prevents ponding of water and minimizes dust and erosion in accordance with Sections A., B. and C of 19.15.29.13 NMAC. Restoration activities were conducted on March 1, 2024. Photographs showing the disturbed areas upon completing restoration are included in the photographic log in Appendix G.

A representative five-point composite soil sample (BF-SW91H-090723) was collected from the surface of the backfilled excavation on June 26, 2024, to document that the materials that were used to backfill the site were non-waste-containing. A sketch showing the grab locations for the composite backfill sample is included in Appendix H. The analytical report for the composite backfill sample is included in Appendix F. No constituents of concern were detected in the composite backfill sample at concentrations in excess of the Reclamation Closure Criteria.

8.0 DISCUSSION AND CONCLUSIONS

Site characterization investigations conducted in September and October, 2023, identified an approximately 2,980-square-foot area over which Remediation Closure Criteria were exceeded in the soil. Exceedances of the Remediation Closure Criteria were confined to within the footprint of the well pad. Within this area, the contaminated soil that exceeded the Remediation Closure Criteria was found to extend to depths ranging from 1 to 3 feet. Site characterization activities also successfully delineated affected soil as required under 19.15.29.13 NMAC.

In late January and February 2024, the affected area was remediated by excavating the impacted soil in accordance with requirements of 19.15.29.12 NMAC. Approximately 310 cubic yards of contaminated soil were excavated from this area and disposed at a NMOCD-permitted surface waste disposal facility.

Confirmation soil samples collected pursuant to Subsection C of 19.15.29.12 NMAC demonstrated that the soil remediation efforts were successful in meeting Remediation Closure Criteria. The disturbed area was restored by backfilling with clean fill to stabilize the disturbed areas and return them to existing grade and provide a soil cover that prevents ponding of water and minimizes dust and erosion in March 2024. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of remaining impacted soil within the well pad area will take place once the Site is no longer used for oil and gas operations.

Based on the results of the site investigations discussed above and the remedial actions completed, Incident nAPP2325072650 qualifies for remediation closure approval.

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9.0 **CLOSING**

CEC appreciates the opportunity to assist Devon on this project. Please contact us if you need additional information.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Laura D. Campbell Project Manager

Lunea Ompleto

Bradley N. Brittain Senior Project Manager

Brodey Brite

Enclosures:

FIGURES:

Figure 1: Site Location Map

Figure 2: Release Characterization Sample Locations

Figure 3: Areas Targeted for Soil Remediation

Figure 4: Final Soil Excavation Limits and Confirmation Sample Locations

TABLES:

Table 1: Summary of Field Screening Results – Release Characterization

Table 2: Summary of Laboratory Analytical Results – Release Characterization

Table 3: Summary of Field Screening Results – Remedial Actions

Table 4: Summary of Laboratory Analytical Results – Soil Confirmation Sampling

APPENDICES:

Appendix A: Initial Release Notification and OCD Response

Appendix B: Sensitive Receptors Map

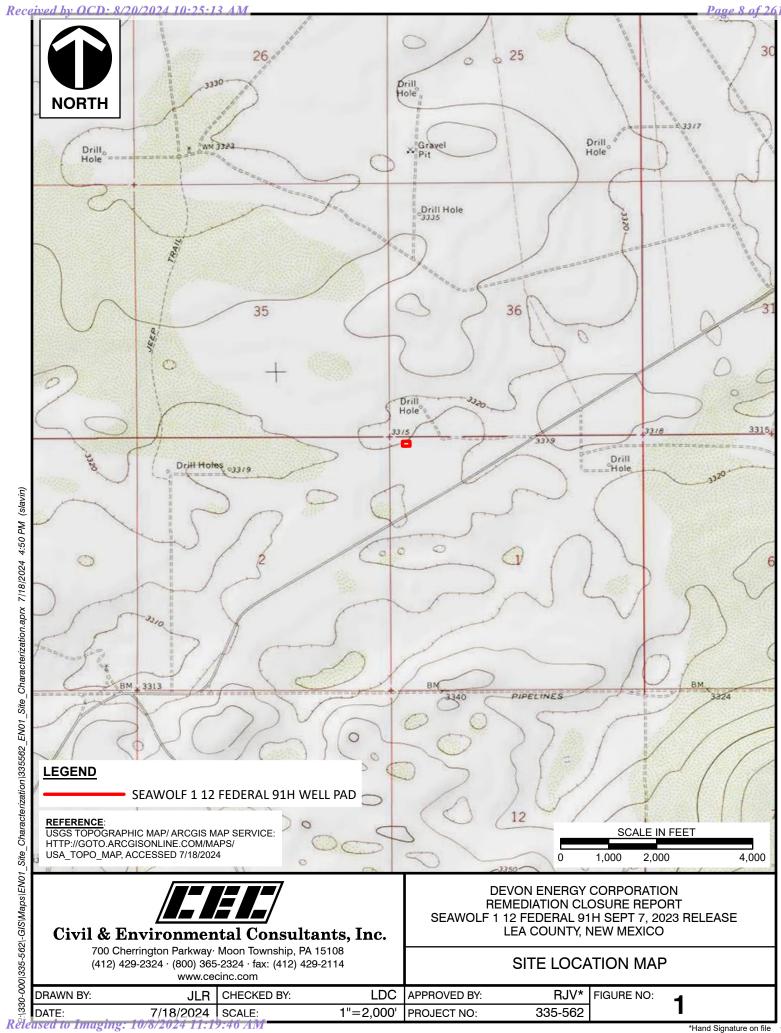
Appendix C: Temporary Well C-4626 Records

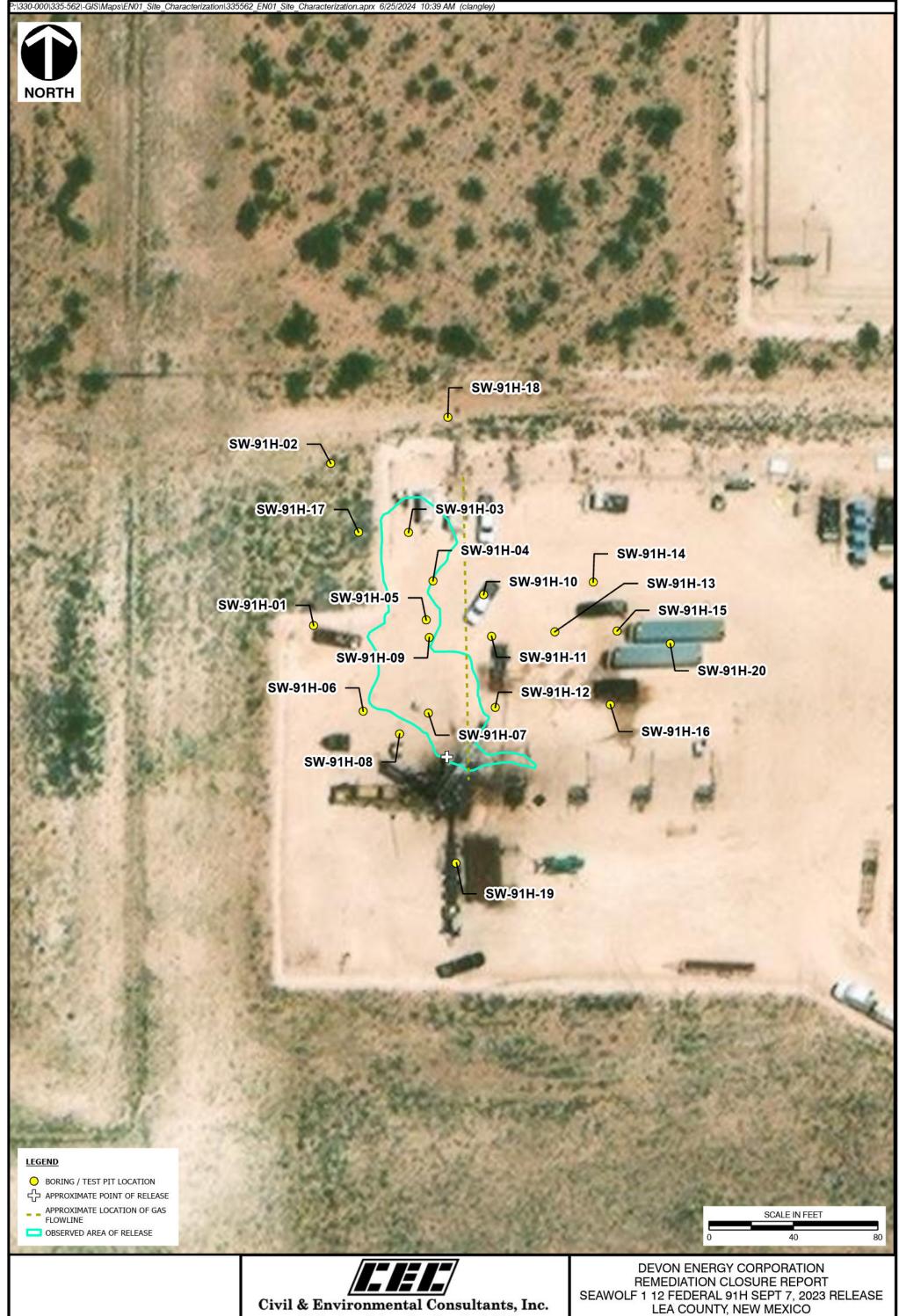
Appendix D: NMOCD Correspondence Appendix E: SOPs for Field Screening Appendix F: Laboratory Analytical Reports

Appendix G: Photographic Log

Appendix H: Sketch Showing Grab Locations for Composite Backfill Sample

FIGURES





REFERENCE

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_ IMAGERY. ACCESSED 6/25/2024 Released to Imaging: 10/8/2024 11.

700 Cherrington Parkway - Moon Township, PA 15108 412-429-2324 -800-365-2324

SITE CHARACTERIZATION SAMPLE LOCATIONS

www.cecinc.com DRAWN BY: CBL/JLR CHECKED BY: 6/25/2024 1"=40' PROJECT NO: DATE: SCALE:

LDC | APPROVED BY: * Hand signature | RJV* | FIGURE NO: 335-562

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P:\330-000\335-562\-GIS\Maps\EN01_Site_Characterization\335562_EN01_Site_Characterization.aprx 7/23/2024 9:08 AM (slavin) **NORTH** SW-91H-18 SW-91H-02 SW-91H-03 SW-91H-17 SW-91H-04 SW-91H-14 SW-91H-10 SW-91H-13 SW-91H-05 SW-91H-01 SW-91H-15 SW-91H-09 SW-91H-11 SW-91H-06 SW-91H-12 SW-91H-07 SW-91H-16 SW-91H-08 SW-91H-19 LEGEND 4 APPROXIMATE POINT OF RELEASE BORING / TEST PIT LOCATION - HORIZONTAL DELINEATION POINT BORING / TEST PIT LOCATION - VERTICAL DELINEATION POINT - - APPROXIMATE LOCATION OF GAS FLOWLINE OBSERVED AREA OF RELEASE SCALE IN FEET PROJECTED REMEDIATION EXCAVATION AREA AND DEPTHS 3-FEET **DEVON ENERGY CORPORATION** REMEDIATION CLOSURE REPORT SEAWOLF 1 12 FEDERAL 91H SEPT 7, 2023 RELEASE Civil & Environmental Consultants, Inc. LEA COUNTY, NEW MEXICO 700 Cherrington Parkway - Moon Township, PA 15108 AREAS TARGETED FOR SOIL REMEDIATION REFERENCE www.cecinc.com ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_ DRAWN BY: SML CHECKED BY: LDC APPROVED BY: * Hand signature on file RJV* FIGURE NO:

IMAGERY, ACCESSED 7/23/2024

Released to Imaging: 10/8/2024 11

DATE:

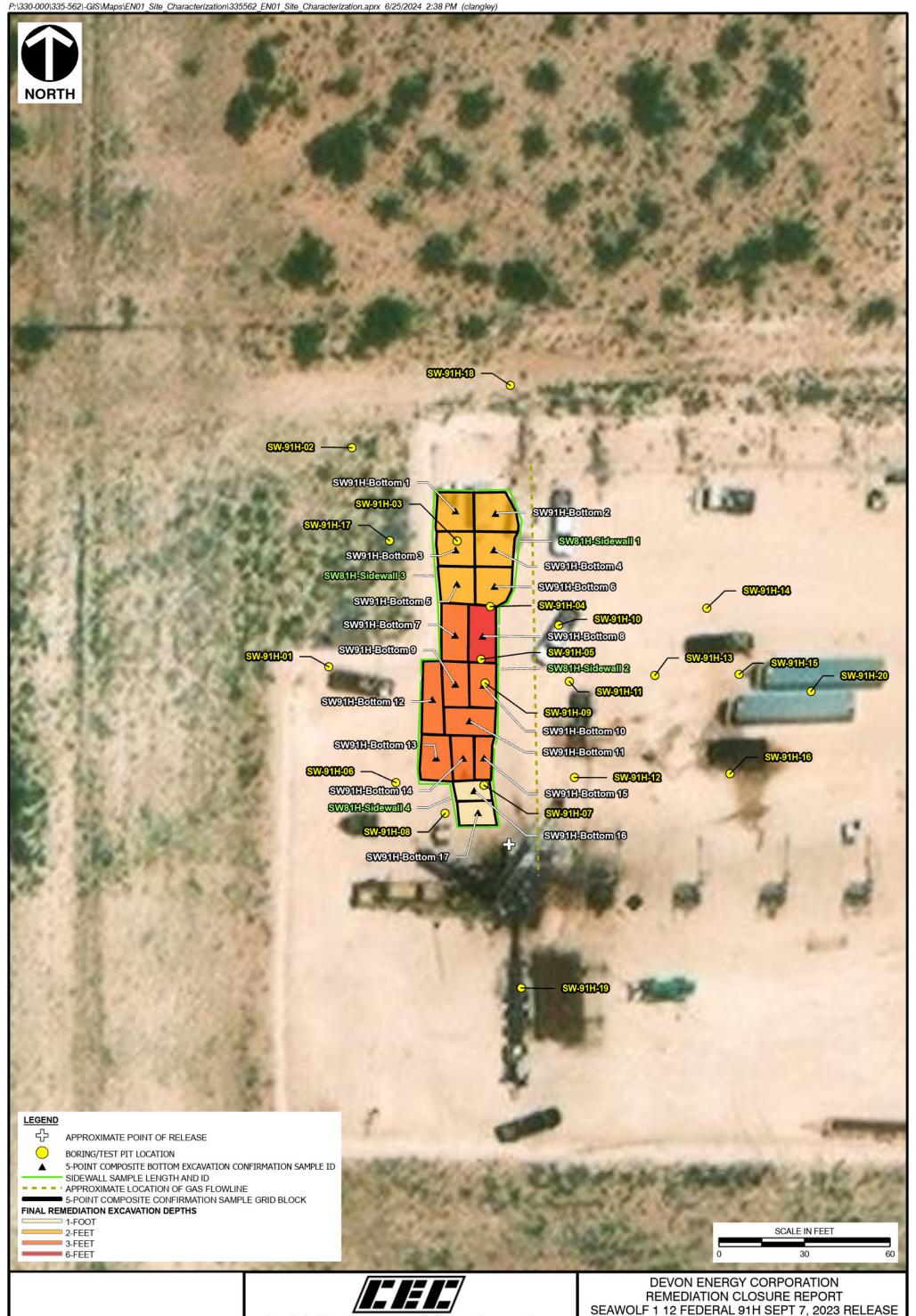
7/23/2024

SCALE:

1"=40' PROJECT NO:

335-562

3



REFERENCE

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_

Civil & Environmental Consultants, Inc.

700 Cherrington Parkway - Moon Township, PA 15108 412-429-2324 -800-365-2324

CBL/NTP CHECKED BY:

6/25/2024

DRAWN BY:

DATE:

www.cecinc.com

SCALE:

FINAL SOIL REMEDIATION EXCAVATION LIMITS AND CONFIRMATION SAMPLE LOCATIONS

LEA COUNTY, NEW MEXICO

LDC APPROVED BY: * Hand signature on file RJV* FIGURE NO: 1"=30' PROJECT NO: 335-562

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TABLES

TABLE 1 SUMMARY OF FIELD SCREENING RESULTS - RELEASE CHARACTERIZATION REMEDIATION CLOSURE REPORT SEAWOLF 1 12 PEDERAL 91H SEPTEMBER 7, 2023 RELEASE DEVON ENERGY CORPORATION CEC PROJECT NUMBER; 335-562

					Field Screen	ing Parameter	
Sample ID	Sample Date	Depth	Field Site Assessment Phase	Electrical Conductivity (mS) ¹	Chloride (mg/kg) ²	Volatile Organic Compounds (ppm) ³	Total Petroleum Hydrocarbons (ppm) ⁴
		0-1		0.54	<62	0.1	72
SW 91H-BG	9/19/2023	1-2		0.3	-	0.0	
SW 91H-BG	9/19/2023	2-3 3-4		0.28	-	0.0	
		4-5	i	0.28	-	0.0	-
		0-1	İ	1.12	54	0.0	-
		1-2		0.88	-	0.6	
SW 91H-2	9/19/2023	2-3		1.61	54	0.1	78
		3-4		1.81	276	0.5	68
	ļ	4-5 0-1	ł	0.46 7.52	828	0.5 37.2	1,085
		1-2		7.45	1,758	7.0	
SW 91H-3	9/19/2023	2-3		5.7	1,126	1.7	57
		3-4		1.83	-	8.8	48
		4-5	ļ	4.16	452	7.5	42
		0-1 1-2		1.53	562 276	19.3	41
SW 91H-4	9/19/2023	2-3	i	1.56	168	25.7	108
		3-4		0.33	-	3.0	
		4-5	i	0.45	-	2.5	-
		0-1	Ī	4.35	206	76.2	672
an	0/10/2222	1-2		2.52	114	6.6	-
SW 91H-5	9/19/2023	2-3 3-4		2.18 4.07	742	4.3 23.4	109
		3-4 4-5		0.93	742	5.2	109
		0-1	ł	3.69	452	0.0	
		1-2		1.86	176	0.1	72
SW 91H-6	9/19/2023	2-3		1.75	186	0.1	48
		3-4	Phase 1	0.31	<62	0.1	35
		4-5		0.26	-	0.1	-
		0-1 1-2		14.53	3,328	1.1	-
SW 91H-7	9/19/2023	2-3		3.59 2.16	_	0.0	-
5.1.7111.7	3/13/2023	3-4	ł	5.92	358	2.3	63
		4-5	i	6.01	750	0.5	52
		0-1	Ĭ	1.04	-	0.0	
		1-2		1.18	86	0.2	43
SW 91H-8	9/19/2023	2-3		1.22	100	0.0	68
		3-4 4-5		0.76	_	0.1	-
		0-1	ł	2.36	276	20.9	1,018
		1-2		1.85	86	5.7	588
SW 91H-9	9/19/2023	2-3		1.95	276	3.1	-
		3-4	ļ	2.19	456	1.9	61
		0-1		1.37	100	0.0	40
SW 91H-10	9/19/2023	1-2 2-3		0.89	100	0.2	
		3-4		1.15 0.96	146	0.0	51
	1	0-1	ł	4.51	1,758	0.0	60
SW 91H-11	9/19/2023	1-2	i	2.52	492	0.1	57
SW 91H-11	9/19/2023	2-3		1.05	100	0.1	
		3-4	 	0.5		0.2	
		0-1		0.77		0.0	-
SW 91H-12	9/19/2023	1-2 2-3		1.43	228 250	0.1	79
		3-4	1	2.12	184	0.0	66
SW 91H-13	0/10/2022	0-1	İ	2.94	716	0.1	
5W 91H-13	9/19/2023	1-2		3.4	356	0.3	-
-		0-1		1.35	228	0.0	
SW 91H-14	10/30/2023	1-2		1.47	250	0.0	24
	1	2-3 0-1	ł	0.53 3.49	78 1,124	0.0	26
		1-2	1	2.95	1,124	0.0	-
SW 91H-15	10/30/2023	2-3	1	3.68	740	0.1	-
	<u></u>	3-4	1	6.86	1,758	0.0	
		0-1	Ī	0.17	<54	0.0	38
	10.00	1-2		0.16	104	0.1	
SW 91H-16	10/30/2023	2-3 3-4		0.31	<54	0.1	
		3-4 4-5		0.22 0.28	_	0.0	234
		0-1	Phase 2	0.17	-	0.0	0
SW 91H-17	10/20/2022	1-2		0.16	-	0.1	-
5W 91H-1/	10/30/2023	2-3		0.12	-	0.1	
		3-4	ļ	0.13	-	0.1	54
SW 91H-18	10/30/2023	0-1		0.14	-	0.0	16
		1-2 0-1	ł	0.42	104	0.1	0
		1-2	1	0.66	104	0.1	34
SW 91H-19	10/30/2023	2-3	1	0.32	-	0.1	_
	<u></u>	3-4	1	0.95	118	0.1	89
			T				
SW 91H-20	10/30/2023	0-1		1.83	250	0.0	50

- Notes:

 1. Soil electrical conductivity collected using a Field Scout Soil Conductivity Probe with automatic temperature compensation.

 2. Chloride readings collected from Quantab ® itrator strips by creating an aqueous solution of 50 grams of soil to 100 mL of distilled water. For readings collected from 1:2 aqueous solution, actual titrator readings were doubled to calculate the actual chloride concentration.

 3. Volatile Organic Compounds (VOCs) were measured in the headspace using a photoionization detector.

 4. Total Petroleum Hydrocarbons (TPH) were measured using a Dexsil PetroFLAG meter with a response setting of 10 for samples collected on 9/19/2023 and a response setting of 5 for samples collected on 10/30/2023.

 Denotes parameter not analyzed.

Received by OCD: 8/20/2024 10:25:13 AM

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS - RELEASE CHARACTERIZATION

REMEDIATION CLOSURE REPORT

SEAWOLF 1 12 FEDERAL 91H SEPTEMBER 7, 2023 RELEASE DEVON ENERGY CORPORATION

CEC PRO JECT NUMBER: 335-562

				Volatile Organic O	Volatile Organic Compounds (mg/kg) Total Petroleum Hydrocarbons (mg/kg)		Anions (mg/kg)	
Sample ID	Sample Date	Depth (feet below ground surface)	Field Assessment Phase	Benzene	Total BTEX ¹	TPH (GRO + DRO) ²	Total (GRO+ DRO+MRO) ³	Chloride
SW 91H-1	9/18/2023	0-1		< 0.00039	< 0.00102	24.5 J,F1	24.5 J,F1	117
	0/10/2020	2-3		< 0.000402	< 0.00105	26.8 J	26.8 J	403
SW 91H-2	9/19/2023	3-4		< 0.000406	< 0.00106	26.4 J	26.4 J	487
		0-1		< 0.000452	< 0.00119	3,007,3 J	3,007.3 J	3,470
	0.40.404	2-3		< 0.000421	< 0.0011	85.7 J	85.7 J	2,320
SW 91H-3	9/19/2023	3-4		< 0.000421	< 0.0011	48 J	48 J	648
		4-5		< 0.000479	< 0.00126	325.9 J	325.9 J	1,090
		1-2		< 0.0004	< 0.00105	27.3 J	27.3 J	587
SW 91H-4	9/19/2023	2-3		< 0.000396	< 0.00104	24.5 J	24.5 J	412 F1
		0-1		< 0.000451	< 0.00118	1,541.1 J	1,541.1 J	2,390
SW 91H-5	9/19/2023	3-4		< 0.000481	< 0.00126	71 J	71 J	1,430
		1-2		< 0.000398	< 0.00104	28 J	28 J	607
SW 91H-6	9/19/2023	2-3		0.000546 J	< 0.00107	<15.9	<15.9	487
		3-4		0.000436 J	< 0.00105	44.9 J	44.9 J	131
		3-4	Phase 1	< 0.000426	< 0.00112	28.8 J	28.8 J	1,830
SW 91H-7	9/19/2023	4-5		0.000579 J	0.000579 J	29.3 J	29.3 J	1,960
		2-3		< 0.000405	< 0.00106	28 J	28 J	453
SW 91H-8	9/19/2023	3-4		< 0.000485	< 0.00127	33.6 J	33.6 J	236
		2-3		< 0.00041	< 0.00127	1,596.4 J	1,596.4 J	2,000
SW 91H-9	9/19/2023	3-4		< 0.000415	< 0.00109	67.7 J	67.7 J	715
		0-1		< 0.000424	< 0.00111	37.4 J.F1	37.4 J.F1	589
SW 91H-10	9/19/2023	2-3		< 0.000402	<0.000515 J.B	24 J	24 J	329
		0-1		< 0.000407	< 0.00107	25.4 J	25.4 J	2,010
SW 91H-11	9/19/2023	1-2		<0.000402	< 0.00107	18.7 J	18.7 J	1,170
		2-3		< 0.000402	< 0.00107	28.1 J	28.1 J	825
SW 91H-12	9/19/2023	3-4		< 0.000404	0.000599 J	28.6 J	28.6 J	578
		0-1		< 0.000404	< 0.0005555	61.9	61.9	2.050
SW 91H-13	9/19/2023	1-2		< 0.000407	0.0005 J	23.5 J	23.5 J	1,070
		1-2		< 0.000413	< 0.00108	18.1 J,F1,B	18.1 J,F1,B	424
SW 91H-14	10/30/2023	2-3		< 0.000413	< 0.00108	21.6 J,B	21.6 J,B	223
		0-1		<0.000418	< 0.0011	56.5B	56.5B	1,860
SW 91H-15	10/30/2023	3-4		< 0.000428	0.00086 J	97.4 J B	97.4 J B	3,580
		0-1		< 0.000423	0.000704 J	52.5 J,B	52.5 J,B	82.3
SW 91H-16	10/30/2023	3-4		< 0.000433	< 0.00114	120.1 J,B	140.2 J,B	84.5
		0-1		< 0.000401	< 0.00114	41 J,B	41 J,B	86.2
SW 91H-17	10/30/2023	3-4	Phase 2	< 0.000414	0.000718	18.3 J.B	18.3 J.B	101
		0-1		< 0.000411	0.000718 0.000643 J	18.6 J,B	18.6 J,B	107 F1
SW 91H-18	10/30/2023	1-2		<0.000411	0.00043 J	31.9 J,B	31.9 J,B	137
		0-1		<0.000403	< 0.0014803	<15.7	<15.7	156
SW 91H-19	10/30/2023	2-3		<0.000399	<0.00103	66.1B	92.3B	300
	l	0-1		<0.000404	<0.00100	21.9 J,B	21.9 J.B	310
SW 91H-20	10/30/2023	1-2		<0.000398	<0.00104	25.4 J,B	25.4 J,B	364
D P 4 61	G 14 1 4	1-2				· ·		
Remediation Clos	sure Criteria			10	50	1,000	2,500	10,000

- 1. Value is the sum of detected benzene, ethylbenzene, toluene, and total xylenes (BTEX). If no BTEX constituent was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 2. Value is the sum of detected TPH (GRO) and TPH (DRO), If no TPH (GRO) and TPH (DRO) was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 3. Value is the sum of detected TPH (GRO), TPH (DRO) and TPH (MRO). If no TPH (GRO), TPH (DRO) or TPH (MRO) was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 4. Remediation Closure Criteria for soils impacted by a release from Table I of 19.15.29 NMAC. Criteria are based on minimum depth to groundwater between 51 and 100 ft-bgs.

ft-bgs - Feet below ground surface.

NSE - Denotes no standard established.

mg/kg - Denotes milligram per kilogram.

Bolded values were detected above the laboratory Reporting Limit (RL).

Denotes analyte exceeded the Remediation Closure Criteria.

Qualifier Definitions

- Denotes analyte not detected above laboratory Method Detection Limit (MDL).
- *+ LCS and/or LCSD is outside acceptance limits, high biased.
- B Compound was found in the blank and sample.
- F1 MS and/or MSD recovery exceeds control limits.
- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TABLE 3 SUMMARY OF FIELD SCREENING RESULTS - REMEDIAL ACTIONS REMEDIATION CLOSURE REPORT SEAWOLF 1 12 FEDERAL 91H SEPTEMBER 7, 2023 RELEASE DEVON ENERGY CORPORATION CEC PROJECT NUMBER: 335-562

				Field Screening Parameter						
Sample ID	Sample Date	Depth	Field Site Assessment Phase	Electrical Conductivity (mS) ¹	Chloride (mg/kg) ²	Volatile Organic Compounds (ppm) ³	Total Petroleum Hydrocarbons (ppm) ⁴			
SW91H-Bottom 1	1/31/2024	1	Confirmation	458		22.6	1,960			
3 W 9111-Dottolli 1	1/31/2024	2	Confirmation	371		0.1	105			
SW91H-Bottom 2	1/31/2024	2	Confirmation	425		1.2	34			
SW91H-Bottom 3	1/31/2024	2	Confirmation	1,570		0.8	165			
SW91H-Bottom 4	1/31/2024	2	Confirmation	1,470		0.3	45			
SW91H-Bottom 5	1/31/2024	2	Confirmation	1,500		0.8	128			
SW91H-Bottom 6	1/31/2024	2	Confirmation	1,470		0.6	0			
SW91H-Bottom 7	1/31/2024	3	Confirmation	1,490		1.2	0			
SW91H-Bottom 8	1/31/2024	3	Confirmation	1,460		0.2	86			
	2/21/2024	4	Confirmation			0.8	355			
SW91H-Bottom 8-2	2/21/2024	5	Confirmation			4.2	222			
	2/21/2024	6	Confirmation	1		0.7	75			
SW91H-Bottom 9	1/31/2024	3	Confirmation	1,270		0.1	0			
SW91H-Bottom 10	1/31/2024	3	Confirmation	1,100		0.1	5			
SW91H-Bottom 11	1/31/2024	3	Confirmation	1,230		0.5	8			
SW91H-Bottom 12	1/31/2024	3	Confirmation	562		0.1	5			
SW91H-Bottom 13	1/31/2024	3	Confirmation	560		0.1	2			
SW91H-Bottom 14	1/31/2024	3	Confirmation	671		0.2	23			
SW91H-Bottom 15	1/31/2024	3	Confirmation	870		0.2	16			
SW91H-Bottom 16	1/31/2024	1	Confirmation	707		0.3	12			
SW91H-Bottom 17	1/31/2024	1	Confirmation	532		0.1	18			
SW91H-Sidewall 1	2/1/2024	0-2	Confirmation	658		0.0	277			
SW91H-Sidewall 2	2/1/2024	0-3	Confirmation	3,080		0.0	82			
SW91H-Sidewall 3	2/1/2024	0-2	Confirmation	2,650		8.3	1,925			
5 w 91H-Sidewall 3	2/1/2024	0-3	Confirmation	659		0.1	95			
SW91H-Sidewall 4	2/1/2024	0-3	Confirmation	1,050		4.3	634			

Notes:

- 1. Soil electrical conductivity collected using a Field Scout Soil Conductivity Probe with automatic temperature compensation.
- 2. Chloride readings collected from Quantab ® titrator strips by creating an aqueous solution of 50 grams of soil to 100 mL of distilled water. For readings collected from 1:2 aqueous solution, actual titrator readings were doubled to calculate the actual chloride concentration.
- 3. Volatile Organic Compounds (VOCs) were measured in the headspace using a photoionization detector.
- 4. Total Petroleum Hydrocarbons (TPH) were measured using a Dexsil PetroFLAG meter with a response setting of 10.
- -- Denotes parameter not analyzed.

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TABLE 4

SUMMARY OF LABORATORY ANALYTICAL RESULTS - SOIL CONFIRMATION SAMPLING

REMEDIATION CLOSURE REPORT

SEAWOLF 1 12 FEDERAL 91H SEPTEMBER 7, 2023 RELEASE

DEVON ENERGY CORPORATION CEC PROJECT NUMBER: 335-562

			Volatile Organic C	Organic Compounds (mg/kg) Total Petroleum Hydrocarbons (mg/kg)		Total Petroleum Hydrocarbons (mg/kg)	
Sample ID	Sample Date	Depth (feet below ground surface)	Benzene	Total BTEX 1	TPH (GRO + DRO) ²	Total (GRO+ DRO+MRO) ³	Chloride
SW 91H-Sidewall 1	1/31/2024	0-2	< 0.000538	< 0.00141	253 B	253 B	959
SW 91H-Sidewall 2	1/31/2024	0-3	< 0.000469	< 0.00123	76.1 J B	76.1 J B	1,050
SW 91H-Sidewall 3	2/1/2024	0-3	< 0.000469	< 0.00123	153.3 J B	153.3 J B	360
SW 91H-Sidewall 4	1/31/2024	0-3	< 0.000607	< 0.00159	290 B	290 B	1,840
SW 91H- Bottom 1	2/1/2024	2	< 0.000498	< 0.00131	470 B	470 B	550
SW 91H- Bottom 2	1/31/2024	2	< 0.000583	< 0.00153	82.5 J B	82.5 J B	127
SW 91H- Bottom 3	1/31/2024	2	< 0.000518	< 0.00136	84.3 J B	84.3 J B	566
SW 91H- Bottom 4	1/31/2024	2	< 0.000468	< 0.00123	94.9 J B	94.9 J B	882
SW 91H- Bottom 5	1/31/2024	2	< 0.00055	< 0.00144	92.3 J B	92.3 J B	669
SW 91H- Bottom 6	1/31/2024	2	< 0.000539	< 0.00141	78.5 J B	78.5 J B	1,170
SW 91H- Bottom 7	1/31/2024	3	< 0.000573	0.000729 J	73.1 J B	73.1 J B	511
SW 91H- Bottom 8	1/31/2024	3	< 0.000574	< 0.00151	4,197 B	4197 B	205
SW 91H- Bottom 8-2	2/21/2024	6	< 0.000396	< 0.00104	47.8 J	47.8 J	90
SW 91H- Bottom 9	1/31/2024	3	< 0.000513	< 0.00134	103.8 J B	103.8 J B	823
SW 91H- Bottom 10	1/31/2024	3	< 0.000522	< 0.00137	69.8 J B	69.8 J B	1,020
SW 91H- Bottom 11	1/31/2024	3	< 0.000531	< 0.00139	89.2 J B	89.2 J B	1,230
SW 91H- Bottom 12	1/31/2024	3	< 0.000526	< 0.00138	97.5 J B	97.5 J B	695
SW 91H- Bottom 13	1/31/2024	3	< 0.000453	< 0.00119	506 B	506 B	2,570
SW 91H- Bottom 14	1/31/2024	3	< 0.000589	< 0.00155	273 J B	273 J B	2,760
SW 91H- Bottom 15	1/31/2024	3	< 0.000438	< 0.00115	222.6 J B	222.6 J B	4,190
SW 91H- Bottom 16	1/31/2024	1	< 0.000484	< 0.00127	360 J B	360 J B	1,800
SW 91H- Bottom 17	1/31/2024	1	<0.000424 *+	< 0.00111	490 B	490 B	1,500
Remediation Closure Crit	eria ⁴		10	50	1,000	2,500	10,000

Notes

- 1. Value is the sum of detected benzene, ethylbenzene, toluene, and total xylenes (BTEX). If no BTEX constituent was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 2. Value is the sum of detected TPH (GRO) and TPH (DRO). If no TPH (GRO) and TPH (DRO) was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 3. Value is the sum of detected TPH (GRO), TPH (DRO) and TPH (MRO). If no TPH (GRO), TPH (DRO) or TPH (MRO) was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
- 4. Remediation Closure Criteria for soils impacted by a release from Table I of 19.15.29 NMAC. Criteria are based on minimum depth to groundwater between 51 and 100 ft-bgs.

ft-bgs - Feet below ground surface.

NSE - Denotes no standard established.

mg/kg - Denotes milligram per kilogram.

Bolded values were detected above the laboratory Reporting Limit (RL).

Denotes analyte exceeded the Remediation Closure Criteria.

Qualifier Definitions

- < Denotes analyte not detected above laboratory Method Detection Limit (MDL).
- *+ LCS and/or LCSD is outside acceptance limits, high biased.
- B Compound was found in the blank and sample.
- F1 MS and/or MSD recovery exceeds control limits.
- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



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APPENDIX A

INITIAL RELEASE NOTIFICATION AND OCD RESPONSE

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	OGRID				
Contact Nam	ie			Contact Te	et Telephone				
Contact emai	1			Incident #	(assigned by OCD	0)			
Contact mail	ing address			,					
			Location	of Release So	ource				
Latitude			(NAD 83 in dec	Longitude _ imal degrees to 5 decim	nal places)				
Site Name				Site Type					
Date Release	Discovered			API# (if app	licable)				
Unit Letter	Section	Township	Range	Coun	unty				
Crude Oil	Material	Federal Tr. (s) Released (Select all Volume Released)	Nature and	l Volume of I	justification for th	ne volumes provided below)			
Produced		Volume Released			Volume Recovered (bbls) Volume Recovered (bbls)				
Troduced	water	Is the concentrate	ion of total dissolv water >10,000 mg/		Yes No				
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)			
Natural G	as	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Wei	ght Recovered (provide units)			
Cause of Rele	ease								

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Page	19	of	`2	61
-			_	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?						
19.15.29.7(A) NMAC?								
☐ Yes ☐ No								
If VFS, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?						
11 125, was ininediate in	otice given to the OCD. By whom: 10 wi	when and by what means (phone, eman, etc).						
	Initial R	esponse						
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury						
☐ The source of the rele	ease has been stopped.							
☐ The impacted area ha	s been secured to protect human health and	the environment.						
Released materials ha	ave been contained via the use of berms or c	ikes, absorbent pads, or other containment devices.						
	ecoverable materials have been removed and							
If all the actions described	d above have <u>not</u> been undertaken, explain	why:						
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease 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: Dale W								
Signature: Dale (Woodall	Date:						
email:dale.woodall@d	lvn.com	Telephone: 575-748-1838						
OCD Only								
Received by: Shelly Well	ls	Date: 9/11/2023						

Seawolf 1-12 fed 91 H

9/7/2023

Spill incident # nAPP2325072650

Spill Volume(Bbls) Calculator									
Inputs in blue, Outputs in red									
Cor	Contaminated Soil measurement								
Area (squ	are feet)	Depth(inches)							
<u>3019</u> .	132	<u>1.000</u>							
Cubic Feet of S	oil Impacted	<u>251.594</u>							
Barrels of So	il Impacted	<u>44.85</u>							
Soil T	ype	Clay/Sand							
Barrels of Oi 100% Sat	The section of the se	<u>6.73</u>							
Saturation	Fluid p	present when squeezed							
Estimated Ba		3,36							
Relea	sed								
.v	Free Standi	ng Fluid Only							
Area (squ	are feet)	Depth(inches)							
3019	132	<u>1.000</u>							
Standin	g fluid	44.847							
Total fluid	s spilled	<u>51.575</u>							

APPENDIX B

SENSITIVE RECEPTOR MAP

 $P:\ 330-000\ 335-562_EN01_Site_Characterization. \\ 335-562_EN01_Site_Characterization. \\ 27/19/2024 \ 1:02\ PM \ (npamukcoglu)$ NORTH Approximate Point of Release C-4628 Temporary Well Location Seawolf 1 12 81H Well Pad <u>LEGEND</u> APPROXIMATE POINT OF RELEASE C-4628 TEMPORARY WELL LOCATION **NHD STREAM** SCALE IN FEET NWI WETLAND SEAWOLF 1 12 91H WELL PAD 7,000 **REFERENCES** DEVON ENERGY CORPORATION REMEDIATION CLOSURE REPORT ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, SEAWOLF 1 12 FEDERAL 91H SEPT 7, 2023 RELEASE ACCESSED 7/19/2024. Civil & Environmental Consultants, Inc. LEA COUNTY, NEW MEXICO NHD FLOWLINES NEW MEXICO, U.S. GEOLOGICAL SERVICE, NATIONAL HYDROGRAPHY DATASET (NHD) FLOWLINES FOR NEW MEXICO, 2022. 700 Cherrington Parkway - Moon Township, PA 15108 SENSITIVE RECEPTOR MAP www.cecinc.com U.S. FISH & WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY (NWI) DATABASE FOR NEW MEXICO, 2021. DRAWN BY: JLR/NTP CHECKED BY: DRAFT APPROVED BY: * Hand signature DRAFT FIGURE NO: B-1 335-562 7/19/2024 SCALE: 1"=3,500' | PROJECT NO: DATE: Released to Imaging: 10/8/2024 11:19:46 AM

APPENDIX C

TEMPORARY WELL C-4626 RECORDS



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

June 8, 2022

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

Hand Delivered to the DII Office of the State Engineer

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

To whom it may concern:

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

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Groon Middle



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. POD 1 (TW		0.)			WELL TAG ID NO N/A	D .		OSE FILE NO C-4628	(S).				
OCATI	WELL OWNER NAME(S) Devon Energy							PHONE (OPTIONAL) 575-748-1838						
WELLL	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy							CITY Artesia			state NM	88210	ZIP	
GENERAL AND WELL LOCATION	WELL	N L	ATITUDE	DF	GREES 32	MINUTES 4	SECO.		di .	Y REQUIRED:		H OF A S	SECOND	
NER	(FROM GP	S) L	ONGITUDE		103	31	34.	28 W	* DATUM RE	QUIRED: WG	S 84		_	
1. GE			ING WELL LOCA T26S R33S I		STREET ADDR	ESS AND COMMO	N LANDM	IARKS – PL	SS (SECTION, TO	OWNSHJIP, RA	NGE) WHE	RE AVA	ILABLE	
	LICENSE NO. NAME OF LICENSED DRILLER 1249 1249 1249 NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.											nc.		
	DRILLING ST 6/9/20		DRILLING E 6/9/20			MPLETED WELL (I nporary Well	FT)	BORE HO	LE DEPTH (FT) ±55	DEPTH W	ATER FIRS	T ENCOU	UNTERED (FT)	
Z	COMPLETED	WELL IS	: ARTES	IAN	✓ DRY HOL	E SHALLO	OW (UNC	ONFINED)		WATER LEV IPLETED WEI		A	DATE STATIC 6/13/2	
ATIC	DRILLING FL	.UID:	AIR		☐ MUD	ADDITI	VES – SPE	CIFY:						
JRM	DRILLING M	ЕТНОD: ∫	ROTARY	HAMI	MER CABL	ETOOL [OTI	HER – SPE	CIFY:]	Hollow Stem	Auger	CHECK I INSTALI	ED	PITLESS ADAI	PTER IS
INF	DEPTH (feet bgl) BORE HOLE						ASING	I .			CASING WALL SLO			
2. DRILLING & CASING INFORMATION	FROM	TO	DIA (inch			(include each casing string, and note sections of screen) CONNECTION TYPE (add coupling diameter)		INSIDE DIAM. T			CKNESS inches)	SIZE (inches)		
& C.	0	55	±6	.5	Boring-HSA									
ING											17			
RILL					1					<u> </u>				
2. DJ										1				<u> </u>
										<u> </u>				
		(0			1									I
4	DEPTH ((feet bgl) TO	DIAM. (LIST ANNULAR SEAL MATERIAL A GRAVEL PACK SIZE-RANGE BY INTE					OUNT oic feet)		METHO PLACEN		
ANNULAR MATERIAL	FROM	10			+					ļ — — —				
IAT										1				
IR N														
A N										ļ		_		
લ										1		-		
	OSE INTER	NAL US	Е			POD N	Ω.		WR-2		ECORD &	LOG (Version 01/2	8/2022)
_	ATION					10010	<u>.</u>		WELL TAG				PAGE	1 OF 2
تت									"THE ING	The section of the	1 . 1 1111 1	270	AND THE PROPERTY OF	

	DEPTH (feet bgl)			COLOR AND TYPE OF MATERIAL ENCOUNTERED -		COUNTERED -		WATER	ESTIMATED
			THICKNESS	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZO				BEARING?	YIELD FOR WATER-
	FROM TO		(feet)	(attach supplemental sheets to fully describe all units)			(YES / NO)	BEARING ZONES (gpm)	
	0	4	4	Sand, Fine-grained, poorly graded, unconsolidated 7.5 YR 5/4, Brown		Y ✓N			
TI.	4	14	10	Sand, Fine-grained, poorly graded, semi-consolidated 7.5 YR 5/4, Brown		wn	Y ✓N		
	14	19	5	Limestone, consolidated 10 YR 7/4. Pale Brown			Y ✓N		
	19	55	36	36 Sand, Fine-grained, poorly graded, 7.5 YR 6/8, Reddish Yellow			y √n		
								Y N	
								Y N	
4. HYDROGEOLOGIC LOG OF WELL								Y N	
O.								Y N	
9								Y N	
)ic								Y N	
Ŏ								Y N	
GEC								Y N	
) RO								Y N	
E								Y N	
4								Y N	
								Y N	
								Y N	
						,T.		Y N	
								Y N	
								Y N	
						Y6		Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOT				
	PUMI	PUMP AIR LIFT BAILER OTHER - SPECIFY:				LL YIELD (gpm):	0.00		
NO	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.								
RVISION	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet								
PER	below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.								
below ground surface(bgs), then hydrated bentonite chips 27 Seawolf 1-12 CTB 1 PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF V									
Ĭ.									
EST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:								
5.1	Shane Eldridge, Cameron Pruitt								
	Diffic Danielon Link								
URE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:								
SIGNATURE	Jack Atkins Jackie D. Atkins					6/16/2022			
Ý	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE			
WE AS WELL BEGODD A LOCAL . OLDOWS						rsion 01/28/2022)			
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/28/2022) FILE NO. POD NO. TRN NO.							101011 01/20/2022)		
THE THE					PAGE 2 OF 2				
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USE DII JUN 16 2022 m2:19



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

State I	Engineer Well Number: C-4628						
Well o	owner: Devon Energy		Phone No.: 575-748-1838				
Mailir	ng address: 6488 7 Rivers Hwy						
City:	Artesia	State	::	New Mexico		Zip code	88210
II. W	ELL PLUGGING INFORMAT	ΓΙΟΝ:					
1)	Name of well drilling compan	y that plugged well:	Jackie D. A	tkins (Atkins En	gineering	Associates	Inc.)
2)	New Mexico Well Driller Lice			j5			
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):Shane Eldridge, Cameron Pruitt						
4)	Date well plugging began: 6/	13/2022	Date	well plugging co	ncluded:	6/13/2022	
5)		itude: 32 ngitude: 103	deg, deg,	4 min,	46.64 34.28	_ sec _ sec, WGS	84
6)	Depth of well confirmed at ini by the following manner: wat	tiation of plugging a er level probe	s:55	_ ft below grou	nd level (ł	ogl),	
7)	Static water level measured at	initiation of plugging	g: <u>n/a</u>	_ ft bgl			
8)	Date well plugging plan of op	erations was approve	d by the Sta	te Engineer:5	5/26/2022	- €	
9)	Were all plugging activities co differences between the appro	onsistent with an app ved plugging plan an	roved plugg d the well a	ing plan? s it was plugged	Yes (attach ad	_ If not, pag	olease descri es as needed)

Version: September 8, 2009 Page 1 of 2 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

O-10' Hydrated Bentonite Approx. 15 gallons 15 gallons Augers	
- I I I I I	
10'-55' Drill Cuttings Approx. 71 gallons 71 gallons Boring	
MULTIPLY BY AND OBTAIN cubic feet x 7.4805 = gallons cubic yards x 201.97 = gallons	

III. SIGNATURE:

I, Jackie D. Atkins	, say that I am familiar with the rules of	the Office of the State
	and that each and all of the statements in this Plugging	g Record and attachments
are true to the best of my knowledge and belie	ef.	
	Jack Atkins	
_	<i>V</i>	6/16/2022
	Signature of Well Driller	Date

Version: September 8, 2009

Page 2 of 2

WR-20 Well Record and Log_2022-01-28-forsig

n

Final Audit Report

2022-06-16

Created:

2022-06-16

Ву:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAA5h_Mq_hHlnyQhNmN3hkX09Fm6A5MlLxW

"WR-20 Well Record and Log_2022-01-28-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-06-16 4:59:31 PM GMT- IP address: 24.49.110.136
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-06-16 5:00:16 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-06-16 5:04:06 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2022-06-16 5:05:04 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed.
 2022-06-16 5:05:04 PM GMT

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APPENDIX D

NCMOD CORRESPONDENCE

From: Wells, Shelly, EMNRD

To: <u>Brittain, Brad; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 91H (nAPP2325072650) - 48 Hr. Notification

Date: Friday, October 27, 2023 10:44:14 AM

Attachments: <u>image001.png</u>

Good morning Brad,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Brittain, Brad <bri>bbrittain@cecinc.com>
Sent: Thursday, October 26, 2023 4:50 PM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 91H (nAPP2325072650) - 48 Hr. Notification

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

Hello:

CEC will be collecting additional site characterization/delineation samples at the Seawolf 1 12 Fed 91H. We plan to start work on Monday, October 30 around 8am. My apologies, I'd typed these emails up this morning and thought I'd sent them.

Bradley Neal Brittain | Senior Project Manager

Civil & Environmental Consultants, Inc.

(Please note new address)

4700 Gaillardia Parkway, Suite 101, Oklahoma City, OK 73142 office 405.246.9411 Ext 7617 direct 405.463.7617 mobile 405.815.7664 bbrittain@cecinc.com | www.cecinc.com



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APPENDIX E

SOPS FOR FIELD SCREENING

06-03-02 FIELD CHLORIDE CONCENTRATION SCREENING IN SOIL SAMPLES

I. SCOPE AND APPLICABILITY: This procedure is used for estimation of chloride concentrations in soil samples.

II. PROJECT-SPECIFIC REQUIREMENTS

- A. SAMPLES TO BE SCREENED: Screening locations are described in the SQAPP.
- **B. MONITORING INSTRUMENTS:** Screening will be conducted using Quantab® chloride titrators (or equivalent).
- C. OTHER REQUIREMENTS: None

III. METHODOLOGY

- A. Place split soil sample in a stainless steel mixing bowl, remove rock fragments and organic material and completely homogenize with a stainless steel spoon.
- B. Using a portable battery operated scale, weigh 50 grams of soil and place into a plastic or glass container. Using a graduated cylinder, add distilled water to the container and shake for one minute or longer. In order to simplify the math, it is customary to add distilled water in quantities of either 50 mL (equivalent to 1 to 1 weight ratio of water to soil), 100 mL (equivalent to 2 to 1 weight ratio of water to soil), or 150 mL (equivalent to 3 to 1 weight ratio of water to soil). In highly cohesive soil, shaking may not completely disaggregate the soil. In this case, a gloved hand can be used to break up the soil to release the chloride from the soil provided that none of the soil and distilled water mixture splashes out of the container or is removed by cohesion to the glove. Once the soil is disaggregated, allow the sample mixture to settle so that heavy particles drop out.
- C. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution that contains the disaggregated soil. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.
- D. Convert the unit value read on the titrator to chloride concentration in water in milligrams/Liter (mg/L) using the table provided on the titrator bottle. Multiply the chloride concentration in mg/L obtained from the table by the appropriate factor of 1, 2 or 3 based on the weight ratio of water to soil used in Section B. to calculate the chloride concentration in soil in milligrams per kilogram (mg/kg). Note that the soil chloride concentration calculated using this method is based on wet weight whereas laboratories typically report chloride concentrations in dry weight. The wet weight result is typically satisfactory for field screening. The wet weight soil chloride concentration reported using this method can be converted to a dry weight if the percent moisture content of the original soil sample is known. Simply multiply the calculated wet weight chloride result arrived at using this method by 1 + moisture content of the original soil sample.
- E. Using the remaining aqueous solution, collect field parameter measurements including total dissolved solids (TDS) and specific conductance.

06-03-02 Page 1 3/13

IV. PRECAUTIONS AND COMMON PROBLEMS

- A. If laboratory analysis is to be performed, the material submitted for laboratory analysis should be similar to the sample selected for field chloride screening.
- B. Turbid solutions will clog the capillary pores of the titrator and cause very slow or incomplete reactions.
- C. Each Quantab® lot is calibrated independently. The chloride concentration table on the bottle from which the strip was removed must be used as values may differ from those of other bottles.
- D. Dropping the titrator strip to the bottom of the container when taking readings should be avoided because the sediment on the bottom of the container often clogs the strip. It is customary to suspend the titrator strip off of the bottom of the container using a clothes pin or similar clipping device.
- V. DOCUMENTATION: Record the readings on the Field Screening Log.
- VI. REFERENCES: None.

06-03-01 ORGANIC VAPORS IN HEADSPACE OVER SOIL

I. SCOPE AND APPLICABILITY: This procedure is used to obtain field measurements of VOCs in the headspace above a soil sample.

II. PROJECT-SPECIFIC REQUIREMENTS

- **A. SAMPLES TO BE SCREENED:** Screening locations are described in the SI-QAPP.
- **B. MONITORING INSTRUMENTS:** Screening will be conducted using a photoionization detector (PID) with a 10.6 eV lamp.
- **C. OTHER REQUIREMENTS:** PID is to be calibrated daily in the field with proper documentation. calibration records will be maintained on the daily field activity log.

III. METHODOLOGY

- A. Use the non-viable split when performing field screening.
- B. Break up cohesive samples inside the ziplock bag to expose additional surface area.
- C. Allow to stand for at least 15 minutes. If temperatures are below 40 F, keep the samples in a warm place. Do not leave the samples in direct sunlight during hot weather.
- D. To take the headspace reading, open the seal just enough to insert a probe, slip the probe in, and record the initial reading.

IV. PRECAUTIONS AND COMMON PROBLEMS

- A. This screening does not replace any monitoring required by the Site Health and Safety Plan.
- B. Do not expose samples to extreme temperatures.
- V. **DOCUMENTATION:** Record the results of field screening along with ambient conditions on the Field Screening Log.
- VI. REFERENCES: None.

06-03-01 Page 1 11/95

06-03-02 FIELD CHLORIDE CONCENTRATION SCREENING IN SOIL

 SCOPE AND APPLICABILITY: This procedure is used for estimation of chloride concentrations on aqueous extracts prepared from soil samples.

II. PROJECT-SPECIFIC REQUIREMENTS

- A. SAMPLES TO BE SCREENED: Screening locations are described in the SQAPP.
- **B. MONITORING INSTRUMENTS:** Screening will be conducted using Quantab® chloride titrators (or equivalent).
- C. OTHER REQUIREMENTS: None

III. METHODOLOGY FOR WATER

- A. Place the water sample into a container.
- B. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.
- C. Convert the unit value read on the titrator to chloride concentration in milligrams/Liter (mg/L) using the table provided on the titrator bottle.

IV. METHODOLOGY FOR SOIL

- A. Place split soil sample in a stainless steel mixing bowl, remove rock fragments and organic material and completely homogenize with a stainless steel spoon.
- B. Using a portable battery operated scale, weigh 50 grams of soil and place into a plastic or glass container. Using a graduated cylinder, add 100 milliliters (mL) of distilled water to the container and shake for one minute or longer. Allow the sample mixture to settle so that heavy particles drop out.
- C. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.
- D. Convert the unit value read on the titrator to chloride concentration in milligrams/Liter (mg/L) using the table provided on the titrator bottle. Multiply the chloride concentration in mg/L obtained from the table by two (2) to calculate the chloride concentration in soil in milligrams per kilogram (mg/kg).
- E. Using the remaining aqueous solution, collect field parameter measurements including total dissolved solids (TDS) and specific conductance.

06-03-02 Page 1 3/13

V. PRECAUTIONS AND COMMON PROBLEMS

- A. If laboratory analysis is to be performed, the material submitted for laboratory analysis should be similar to the sample selected for field chloride screening.
- B. Turbid solutions will clog the capillary pores of the titrator and cause very slow or incomplete reactions.
- C. Each Quantab® lot is calibrated independently. The chloride concentration table on the bottle from which the strip was removed must be used as values may differ from those of other bottles.
- VI. DOCUMENTATION: Record the readings on the Field Screening Log.
- VI. REFERENCES: None.

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PetroFLAG is a registered trademark of Dexsil Corporation, US Patents 5,756,357 & 5,928,950 and $\,$ 6,117,682 $\,$ Ver.1 Rev. 1 $\,$ 04/09

Introduction to the PetroFLAG® Hydrocarbon Analysis System

NOTE: PLEASE READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO RUN THIS TEST

The PetroFLAG hydrocarbon analysis system is a broad spectrum field analytical tool suitable for any type of hydrocarbon contamination regardless of the source or state of degradation¹. Unlike other field screening methods, the PetroFLAGsystem does not target specific compounds such as BTEX (Benzene, Toluene, Methylbenzene and Xylene) or PNAs (Poly-Nuclear Aromatics) that may be part of some hydrocarbon mixture. This makes the PetroFLAG system a very versatile analytical method that can be used on most hydrocarbon spills without prior knowledge of the BTEX or PNA content of the contaminant. The PetroFLAG system uses patented chemistry to respond to the broadest range of hydrocarbons possible. The PetroFLAG system is most sensitive to heavier hydrocarbons such as oils and greases and less sensitive to the lighter more volatile hydrocarbon fuels. The specially designed PetroFLAG analyzer allows the user to select, in the field, the response factor that is appropriate for the suspected contaminant at each site. The response factors for a number of contaminants are listed in Table 1. Using the selected response factor, the analyzer compensates for the relative response of each analyte and displays the correct concentration in ppm. The response curves for some typical hydrocarbon contaminants are plotted in Appendix A.

All chemical methods for hydrocarbon analysis in soil that are currently in use, whether they be field screening or laboratory methods, depend on solvent extraction to remove the hydrocarbons from the soil sample. The extraction efficiency for each method is a function of the solvent used and the extraction procedure. This efficiency is also dependent on

many other factors such as the soil type, water content, pH, etc. Many EPA SW-846 methods use chlorinated solvents or Freon as extraction solvents. These solvents were originally chosen for their extraction efficiency of polar organic compounds and may not be appropriate for hydrocarbons. Furthermore, special measures need to be taken with these lab methods when the soil is wet.² The extraction efficiencies may be as low as 1% in some cases.

The extraction solvent used in the PetroFLAG system has been carefully developed to give consistent extraction efficiencies over the range of soil types and conditions most commonly encountered in the field. The PetroFLAG solvent system contains no chlorofluorocarbons or chlorinated solvents. The extraction efficiency is unaffected by soil moisture and, in most cases, is up to 15%(w/w).

Because the PetroFLAG system has such a broad response spectrum, there are situations where it will indicate a higher hydrocarbon concentration than other methods. This can be due to the higher extraction efficiency of the PetroFLAG extraction solution or the broader response range of the detection system. SW-846 method 8015B, for example, targets only a very narrow range of

¹Brake fluid, phosphate ester based hydraulic oil, and other soluble fluids, will not be detected by the PetroFLAG system.

²USEPA SW846 Method 3550A Ultrasonic Extraction Rev 1, November 1992

³Lee, W.E. III, Houchin, C.A. and Albergo, N., "TRPH Discrimination of Petroleum and Nonpetroleum Organic Materials", *American Environmental Lab*, December 1993.

⁴The presence of water will cause a dilution effect resulting in a lower response. This effect can be corrected for, if the water content is known. (For a more complete discussion see "Using the PetroFLAG System: Effects of Soil Water Content on PetroFLAG Result")

hydrocarbons typically in the "Diesel" or "Gasoline" range (DRO or GRO). This method does not detect oils or greases unless the analyst changes the method and specifically looks for the heavier compounds. Requesting 8015B for diesel range hydrocarbons may result in under reporting of the actual total hydrocarbon contamination when oils or greases are present. Method 418.1 is a more general method and detects any Freon extractable compounds that contain a C-H bond. This method has relatively poor extraction efficiencies with many soil types. For a more complete discussion of the comparability of hydrocarbon methods see Appendix B.

Since the PetroFLAG system responds to the full range of hydrocarbons it will also detect some naturally occurring hydrocarbon-like compounds. (Method 418.1 uses a silica column to remove some of these compounds, but will still detect naturally occurring terpenes and creosotes, etc.) Therefore, in situations where high organic content is suspected, background levels outside the spill site should be determined. This will help to identify any naturally occurring sources of hydrocarbons that may cause a positive interference with the test. In cases where there exists a high natural organic background, a "Background Correction" can, in limited circumstances, be used to correct readings for this positive interference. Note: Because of the broad spectrum screening nature of the test, naturally occurring waxes and oils can cause high readings; however, false negatives or under-reported levels are very unlikely.

The PetroFLAG system is a valuable field analytical tool when used as part of a systematic sampling plan. As part of any site work, always have the hydrocarbon contamination characterized at some point during the project by for example, sending confirmation samples for closure to a certified laboratory. Since each laboratory method for petroleum hydrocarbons has a different target analyte and different response characteristics, use only appropriate methods for comparison. Furthermore, since the proficiency of laboratory methods for petroleum hydrocarbons varies from one laboratory to another; it is important to verify that the lab you use is proficient with the method you request. Always ask for QA/QC data and verify that the blanks, duplicates and spikes are within

specification for the method. When using a lab that is new to you, send them proficiency samples of known concentrations and varying water content.

Lab results often contain one or more samples that are designated "ND" (none detected) without a qualifier. This type of reporting is misleading because information on the limit of quantification is not included. The designation "ND" never means zero ppm and should be followed by an indication of the detection limits of the method used to obtain the result, e.g., ND<40 ppm. In many cases the detection limits for a method will vary with sample size, dilution factors or extraction procedures and may not be the same for all samples in the sample batch. The detection limits for some of the common lab TPH methods are on the order of 40-50 ppm. Therefore, when comparing laboratory data it is important to know the realized detection limits implied in any "ND" results.

Using the PetroFLAG System

The PetroFLAG analyzer has been specifically designed to be used with the unique patented chemistry of the PetroFLAG system. The meter is shipped fully calibrated, preset with response factor 5. This calibration is sufficient to begin screening

measurements; however, in order to achieve optimum performance we recommend that the analyzer be calibrated with each batch of samples, or at least daily. The PetroFLAG analyzeris easy to calibrate and a calibration standard is included with every refill pack.

The PetroFLAG analyzer stores two independent calibration equations in separate memory locations. Each calibration has a unique designation, "1C" or "2C". One way to effectively use this feature is to use one for a "low temp." calibration and one for a "high temp." calibration. This practice is very useful when working at field locations where the ambient temperature varies by more than 10°C over the course of the day. One calibration, run at the lower temperature in the morning, could be stored under "1C" and later as the temperature rises, triggering a temperature warning, a new calibration can be run and stored under "2C". (See below under "Temperature Effects")-

Table 1: Response Factors and Method Detection Limits for Common

Hydrocarbons

Hydrocarbon Type	Method Detectio n Limit (ppm)	Response Setting
Transformer Oil	15	10
Grease	15	9
Hydraulic Fluid	10	8
Transmission Fluid	19	8
Motor Oil	19	7
#2 Fuel Oil	25	7
#6 Fuel Oil	18	6
Diesel Fuel	13	5
Gear Oil	22	5
Low Aromatic Diesel	27	4
Pennsylvania Crude Oil	20	4
Kerosene	28	4
Jet A	27	4
Weathered Gasoline	200*+	2

^{*}See Appendix A

Choosing the Correct Response Factor

The microprocessor in the PetroFLAG analyzer uses the calibration data to convert the optical reading into a preliminary concentration. The selected

response factor is then used to calculate the correct concentration for the analyte of interest. Therefore, it is important to choose the response factor that is appropriate for the particular hydrocarbon or class of hydrocarbons present at the site. The response factor can be changed at any time without affecting the stored calibrations. (See "Analyzer Operation Examples: Standard Operation-Changing Response Factor Without Recalibrating")

If the contaminant is known or suspected, choose the appropriate response factor from Table 1 and set that response factor on the analyzer. (See "Analyzer Operation" below.) there is a mixture of hydrocarbons, use the most conservative response factor (i.e. the lowest) for contaminants known to be present. If the contaminants

unknown, choose a conservative response factor based on those hydrocarbons that are likely to be on the site. Examination of Table 1, indicates that the majority of typical contaminants are in response category 5 or above.

⁺Due to the non-linear response curve of Gasoline, quantification below 1000 ppm may underestimate the true contamination

Analyzing High Concentration Samples

The PetroFLAG Hydrocarbon Analyzer is preprogrammed to warn the user of an over-range condition. If the over-range reading is outside of the linear range (± 10 precision), but still within the quantifiable range (±20% precision), the reading will be displayed blinking. This reading can be used as an indication that the concentration in the sample is not less than the displayed value. Since the response curve for most analytes is non-linear at high concentrations, the concentration in the sample may be higher than the displayed value. If the over-range condition is outside of the quantifiable range of the meter, the display will show a blinking "EEEE". Either error indication can be cleared by simply inserting the next vial and pressing the <READ/ON> key.

Accurate results can be difficult to obtain when 10 gram soil samples with high contaminant concentrations are used since they may cause a over-range condition on the PetroFLAG analyzer. To quantify these high contaminant samples, extract fresh soil samples of 1 gram size and reanalyze. Then multiply the result by 10 to obtain the concentration in the sample. Using this procedure, it is possible to measure oils containing up to 50,000 ppm of light hydrocarbon contamination or 10,000 ppm of a heavier hydrocarbon. For readings at higher concentrations, a "high range kit" is available.

<u>NOTE</u>: The use of either smaller samples or "high range kits" will affect the precision and accuracy of the method as well as raise the MDL (<u>M</u>inimum <u>D</u>etection <u>L</u>imit) in proportion to the dilution factor.

Converting Response Factors for Data Already Collected

Collected data can be easily converted to the correct reading when it has been determined that the wrong response factor has been used. To make this conversion, multiply the measured value by the response factor initially used to make the measurement and divide by the new response factor.

Temperature Effects on Measurements

The PetroFLAG analyzer is equipped with an onboard temperature sensor to measure the ambient temperature while measurements are being made. The software uses the temperature readings to correct the optical readings for drift caused by the temperature fluctuations. The corrections have been determined for their effects on the turbidity development and the temperature drift of the electronics.

The PetroFLAG analyzer can be used at temperatures from 4°C to 45°C. The temperature corrections are valid for temperatures within 10°C of the calibration temperature. If a calibration is run with each batch of samples, the temperature correction is not significant and measurements can be made at any temperature within the usable range of the instrument. However, if no calibration is run and the ambient temperature deviates from the calibration temperature by more than 10°C, an error condition will result. The analyzer will display "Err4" which can only be cleared by pressing the <NEXT> key. Pressing of the <NEXT> key will clear the error and display the current reading. This reading can be recorded but it should be noted that the ambient temperature was outside of the acceptable 10°C window. Any other samples remaining in the series can be read, however, the same error condition will most likely occur. The meter must be recalibrated to eliminate this error condition.

The ambient temperature should be checked before starting to avoid a temperature error when a calibration is not run with the samples.. This can be

done by taking a reading without inserting a vial into the meter. If a reading is displayed, the temperature is within range and additional readings can proceed. If an error is displayed, the meter must be recalibrated before proceeding.

As previously mentioned, the storage of two calibrations, each at a different temperature, will reduce the number of recalibrations necessary as the temperature changes. If the two calibrations are stored under "1C" and "2C" and are run at temperatures levels 20°C apart, the effective temperature range for measurements now becomes 40°C.

Effects of Soil Water Content on PetroFLAG Result

The presence of water in a soil sample will have a definite effect on the reporting value in the final PetroFLAG result. As with all field measurements, the PetroFLAG system result is calculated based on the sample weight "as received". If there is water present in the sample, this will produce a "wet weight" result causing an apparent under reporting by the PetroFLAG technique when compared to a laboratory reporting on a "dry weight" basis.

To correct for the difference between "wet weight" vs. "dry weight" results, simply divide the PetroFLAG value by the "fraction solids" (FS), where fraction solids is:

$$FS = Dry \ Weight/Wet \ Weight$$
 or:
$$FS = (100 - \% water)/100$$

Furthermore, when reporting the wet weight vs. dry weight results, the presence of water in a soil sample will cause a "dilution effect". Since the PetroFLAG solvent system is miscible with water, the water in the soil will be extracted into the solvent phase. The aliquot filtered into the developer vial will, therefore, be diluted by the presence of the water. To a first approximation, the correction for this "dilution effect" is made by multiplying the PetroFLAG result by one plus the "fraction water" in the sample, R'=R(1+FW), where fraction water (FW) is:

FW=(Wet Weight - Dry Weight)/Wet Weight or:

FW = % water/100

The equation below can be used to achieve an overall correction that includes both the conversion of the PetroFLAG result to a "dry weight" value and the correction for the dilution effect:

$$R'=R((2/FS) - 1)$$

where:

R' = "Dry Weight" Corrected Result

R = Result displayed by PetroFLAG unit

FS = Fraction Solids

where:

FS = (100 - % water)/100

The above correction is applicable for typical soil types containing up to approximately 15% water by weight. For heavy clays or samples with higher water content, the effect of water content will vary with the analyte and should be determined specifically for each site.

In many cases, the effects of water content can be overcome by using a smaller sample size. This approach is the simplest and can be used effectively when a reduction in precision resulting from a smaller sample size still satisfies the overall data quality objective.

In some soils with high water content, the PetroFLAG response will be reduced both by the poor extraction efficiency of the analyte and a simple dilution. In these soils, the effect of water content on the extraction efficiency can sometimes be reduced by the addition of anhydrous sodium sulfate.

To treat such soils with sodium sulfate, weigh out the appropriate amount of soil sample (10 grams for a standard analysis) followed by the addition of up to 10 grams of anhydrous sodium sulfate. Mix the system thoroughly by stirring and/or shaking the sample until a free-flowing mixture is formed. Add the extraction solvent from a break-top ampule and then, follow the standard analysis procedure.

Treatment with sodium sulfate can improve the extraction efficiency, but will not correct for either the dilution effect or the wet weight/dry weight reporting error. The actual water content in the sample should be determined at some point so that the above corrections for wet weight and the dilution effect can be applied to the final result.

Sample Preparation

Each 10-pack of soil reagents contains reagents and supplies for 10 tests. In addition, one blank and one calibration standard are included. Samples can be run individually or by batch. For optimum performance and throughput, samples should be run in groups of 10 samples, once the meter has been calibrated with a blank and a standard. The meter does not need to be recalibrated, provided that the operating conditions and reaction times are maintained. Total time to analyze 10-15 samples is approximately 20-25 minutes.

Calibration

To insure accurate quantification and repeatable results, it is recommended that the PetroFLAG meter be recalibrated with each batch of 10 samples or, at least, daily. The meter is easily calibrated using an extraction solvent ampule as a blank and the calibration standard (supplied with each ten-pack of reagents).

After exiting the calibration mode, all additional readings made by the PetroFLAG analyzer will automatically incorporate the selected response factor. Therefore, rereading of the calibration standard will result in an incorrect reading unless the response factor being used is 10 and within the correct development time of the sample.

<u>NOTE</u>: Once the *blank* and *calibration standard* have been read, discard them. They will fade with time and cannot be reused; DO NOT USE THEM TO RECALIBRATE THE METER OR TO CHECK THE EXISTING CALIBRATION.

Preparing Blanks and Standards

The following description summarizes the procedure for preparing the blank and calibration standard.

Read the step-by-step instructions below completely before beginning the calibration process.

To prepare a blank and a calibration standard, first label two soil tubes, one as the "blank" and the other as the "standard". Add to the blank tube the contents of a break-top ampule labeled "Extraction Solvent". Add the contents of the break-top ampule labeled "Calibration Standard" to the standard soil tube. Process the blank and standard exactly as soil samples as described below. (See "The PetroFLAG Test Procedure")

QA/QC

Performing periodic calibrations of the PetroFLAG meter is one of the most important quality control checks that can be made. In addition to calibrating the PetroFLAG meter, performance of periodic calibration also serves as a quality control check of the entire analysis system. Each time a calibration is performed the individual operator needs to prepare a fresh set of standards following the entire analysis procedure. To complete a valid calibration, the resulting test standards must meet the QC acceptance criteria stored in the meter. Each time a calibration is carried out, the meter verifies if the operator is performing the test correctly, e.g., following the correct order of steps in sample preparation, holding to the timing requirements, operating the meter correctly, etc. while the meter checks its basic operation. As each calibration is made, the intensity of the test solution is compared to the stored values for acceptance. If the optics have degraded or the electronics are out of specification the calibration will be flagged as an

The most important factor affecting the accuracy of PetroFLAGmeasurements is operator error followed by the ambient temperature determination. If the temperature varies by more than 10°C from the calibration temperature, the accuracy of the resulting measurement will be affected. Therefore, during each measurement made by the meter, the current ambient temperature is compared to the temperature determined at calibration. If the difference is more than 10°C, a warning is flashed alerting the operator of the temperature drift. This QC check is transparent to the user unless an error condition exists.

The internal check of the optical system is also transparent to the user. The PetroFLAG meter is designed with two independent optical channels. If, during a measurement, both channels do not agree, an error condition will be generated.

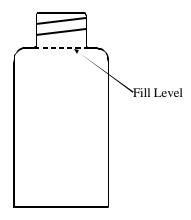
Along with these QC checks, which are performed automatically by the PetroFLAG meter, additional QA/QC procedures should be developed to provide assurances that the data quality objectives for each project are met. The most important part of any SOP (Standard Operating Procedure) should include provisions for ensuring that confirmatory samples are sent to a qualified lab for verification as to the type of hydrocarbon contamination present. This will also serve as a check of the response factor being used. When PetroFLAG meter results are determined to be either high or low when correlated to laboratory data, then a new response factor should be calculated and used. If the PetroFLAG results are not well correlated with the lab, then the field techniques should be examined to determine possible sources of error. A lack of correlation may be the result of inhomogeneous samples or may be due to splitting technique, etc.

A program of field QA/QC should be developed that is compatible with the competing requirements of each user. It should include, a minimum of periodic soil blanks, equipment blanks, soil spikes, and dupes. Other procedures should be implemented depending on the specific requirements of each site.

The PetroFLAG Test Procedure

- Label the soil extraction tubes (plastic tubes with colored caps) and developer vials (small glass vials with black caps) with the appropriate sample ID. Use the self-adhesive labels to label the screw cap of the developer vial. Do not write in the center 1/3 of the developer vial as this may obscure the optical path when the readings are made
- 2) Weigh 10 grams (± 0.1 gram) samples of all unknown soils into each of the labeled color-capped polypropylene tubes.
- 3) Set timer for 5 minutes. Add one break-top ampule of extraction solvent (blue polypropylene top) to the first tube. Start 5 minute timer and shake for 15 seconds. A separate ampule of extraction solvent is added to each of the remaining sample tubes when additional samples are being analyzed. Shake each tube for 15 seconds ensuring that the soil samples are fully wet. Shake each tube intermittently for a total of 4 minutes, then allow each tube to stand for the remaining 1 minute.
- 4) Verify that the filter disk is firmly attached to the syringe barrel. Remove the cap from the first labeled developer vial. Carefully decant the liquid from the polypropylene soil tube into the syringe barrel minimizing the transfer of soil particles, as this may plug the filter. Insert the plunger into the syringe barrel. Discard the first few drops from the filter into a waste container by pressing the plunger. Next, add the soil extract drop-wise to the developer solution until the meniscus just enters the neck of the vial (see figure). Shake the vial for 10 seconds, start the 10 minute timer and proceed to the next sample. Read the samples as close to the 10 minute time period as possible. Record this reading. Do NOT attempt to reread the sample as sample variation will occur due to fading of the solution over time. Do not let the developer vials stand longer than 20 minutes before reading, as this may result in lower than actual values.

- 5) If meter is off, turn on the meter by pressing <READ/ON> key and calibrate (optional, see Analyzer Operation).
- 6) To read, wipe the vial, place into the meter and press the <READ/ON> key. Be sure that the outside of the vial is clean before reading. Record result on work sheet. Read vials in the same order as they were prepared.



6 mL Developer Vial

Analyzer Operation

The PetroFLAG analyzer is controlled by a low-power consumption micro-computer with a pre-loaded operating program which is stored in EEPROM memory. The program cannot be lost regardless of battery condition. The meter stores two calibration curves in separate memory locations. These calibration curves can be independently updated and the response factors can be changed without losing the calibrations.

The PetroFLAG meter is configured to allow easy access to the program modes. The currently active mode is indicated on the LCD display while a reading is in progress. The response factor and the active calibration can be changed from the MAIN MENU using the fourkeys on the keypad. The four keys are:

SCROLL

Scrolls through menu choices.



Exits the read mode or skips a menu option without changing or executing. (Also used to clear error conditions.)



Turns the meter on and starts a reading.



Selects a menu choice. Manually turns meter off (only in the *read* mode).

When the PetroFLAG analyzer is turned on, the unit will return to the last mode it was in prior to being shut down. Under normal operating conditions, the analyzer will power up in the *read* mode. When the analyzer powers up in the *read* mode, the screen will display the last measured value for two seconds, and then, display the currently selected calibration curve ("1C" or "2C") and response factor (1-15). The meter is now ready to resume measurement. Simply insert a new sample vial into the meter and

push the <READ/ON> key. The display will initially indicate the calibration curve (either "1C" or "2C") and the response factor (1-15) that is currently selected. Next, the term "CALC" will flash on the screen and after 5 seconds, the measured concentration in ppm will be displayed.

<u>NOTE</u>: If the battery is disconnected and then reconnected, the meter will automatically return to the MAIN MENU. If the calibration curve and response factor displayed are the desired parameters, the MAIN MENU can be exited while retaining the calibration data by pushing the <NEXT> key. To return to the read mode, continue pressing the <NEXT> key until the display shows the calibration curve and the response factor continuously without blinking.

If you wish to exit the *read* mode, push the <NEXT> key and the operation is returned to the MAIN MENU. The <NEXT> key is also used to skip a step where a menu selection is required. To change a flashing menu option, push the <SCROLL> key while the option is flashing. To store the currently flashing menu choice, push the <SELECT> key. This stores the current choice and moves the flashing cursor to the next program mode.

Selecting a Calibration Curve

Either of the two calibration curves, identified as "1C" and "2C", can be selected from the MAIN MENU. From either calibration curve any response factor can be selected. To change the response factor or to recalibrate the unit, use the <NEXT> key to enter the MAIN MENU screen. Immediately upon entering this menu three decimal points and the response factor are displayed. Next, the first two characters on the screen indicates the calibration curve that is currently selected ("1C" or "2C") is displayed. They will blink, indicating that a new curve may be selected. Use the <SCROLL> key to scroll to the next calibration curve. Push the <SELECT/OFF> key to select the curve.

The response factor will then blink. Use the <"SCROLL> key to scroll to the desired response factor for the target analyte and press the <SELECT/OFF> key.

Reading the Blank and Standard

After the response factor has been selected, the screen will read "CALC" for five seconds and then display the calibration temperature. temperature will remain on the screen until either the <NEXT> key or the <READ/ON> key is pressed. The screen will then prompt you for the "blank" vial by displaying "-bL-". Insert the blank vial in the meter and press the <READ/ON> key (See "Preparing Blanks and Standards" under "Using the PetroFLAGHydrocarbon Analysis System). After 5 seconds the screen display should read "0" for 2 seconds. The screen will then prompt for the calibration standard, "-CSd". Insert the calibration standard in the meter, press the <READ/ON> key and after 5 seconds, the calibration is complete. The meter will then re-read the calibration standard to verify a valid calibration and display "1000". If the concentration of the calibration standard is not correct using the newly calculated equation, an error message will flash until the <NEXT> key is pushed. If an error condition exists, the previously stored calibration constants will be retained until a valid calibration is completed (See Appendix C, Table 1: Error Conditions).

Taking a Reading

After calibration, the meter will then display the calibration curve in use ("1C" or "2C") and the current response factor selected. The meter is ready to read the first sample by inserting the sample vial into the meter and pressing the <READ/ON> key. After reading the sample, the meter will display the concentration in parts per million (ppm) until either the <READ/ON> key or the <NEXT> key is pushed. If no key is pushed for a period of five minutes, the meter will turn off automatically. If the meter turns off automatically, the meter can be reactivated by pressing the <READ/ON> key and the unit will return to the operation mode last used. The meter can be turned off manually by using the <SELECT/OFF> key, while in the *read* mode only.

The optical system on the PetroFLAG analyzer is covered with a screw cap to keep out stray light. To remove this screw cap from the vial holder, simply unscrew it 1/4 of a turn counter-clockwise. To make a measurement, insert the developer vial into the

unit, place the screw cap over the vial, and while pressing down on the cap (depressing the spring in the bottom of the vial holder), rotate the cap clockwise. Turn the cap until it is snug, but do not over-tighten.

Power Requirement

The PetroFLAG analyzer is powered by one 9V alkaline battery (included). This battery should last for several thousand readings. If a low battery condition exists "LP" will appear on the display.

Analyzer Operation Examples

Outlined below are step-by-step examples of how to use the PetroFLAG analyzer. Under normal operating conditions the meter will power up in the *read* mode. The examples given here categorized as "standard operation" assume that the meter was last operated in the *read* mode. If the meter was left in another mode for longer than five minutes or the batteries were removed, see below for special cases.

Standard Operation:

(Whenever the last operation mode was *read*, the calibration data is current and the last-used response factor is valid.)

1) Turn the meter on by pressing:



The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.

- 2) Remove the screw cap, insert developer vial to be read and retighten cap.
- 3) To begin reading press:



The display will show the calibration curve and response factor currently selected (blinking), the display will read "CALC" for 3 seconds, and the final result will be displayed.

4) The result will be displayed until the next reading is taken. To make the next reading: remove the vial and repeat steps 2 and 3 above.

Standard Operation/Changing Response Factor Without Recalibrating:

(Whenever the last operation mode was *read* and a different response factor is desired.)

1) Turn the meter on by pressing:



The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.

2) Return the operation to the MAIN MENU by pressing:



Three decimal points will be displayed along with the current response factor. The calibration curve designation will begin blinking.

3) The response factor entry mode is activated by pressing:



The response factor will begin to blink indicating that it may be changed.

4) Scroll to the desired response factor by pressing:



The next response factor will be displayed. Continue pressing the <SCROLL> key until the desired response factor is displayed. (Response factors scroll in descending order, i.e., 15-1)

5) When the desired response factor is reached, select it by pressing:



The new response factor has been selected. The meter will calculate and display the current temperature.

6) Move to the next screen by pressing:



The meter will prompt for the blank to be entered and the calibration procedure to begin by displaying "-bL-".

7) Skip this calibration procedure and move directly to the *read* mode, saving the new response factor but not recalibrating, by pressing (This exits the calibration mode without affecting the current calibration data):



The meter will display the current calibration curve and the selected response factor and is ready to read a sample using the new response factor.

8) Proceed with the reading of a sample by following the above procedure for "Standard Operation" beginning at step 2.

Standard Operation With Recalibration:

(Where the last operational mode was the *read* mode and the meter is to be recalibrated.)

Prior to performing this calibration procedure, prepare the *blank* and *standard* as described in the manual under "Using the PetroFLAG Hydrocarbon Analysis System-Preparing Blanks and Standards". They may also be prepared along with the unknown samples in order to save time.

1) Turn the meter on by pressing:



The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.

2) Return the operation to the MAIN MENU by pressing:



Three decimal points will be displayed along with the current response factor. The calibration curve designation will begin blinking, indicating that it may be changed.

(If the displayed calibration curve is the one to be redetermined, skip directly to the response factor input by pressing the < NEXT> key.)

OTHERWISE

3) Scroll to the calibration curve that is to be redetermined by pressing:



The display will show the next calibration curve designation.

4) When the desired calibration curve is determined, select it by pressing:



The calibration curve is selected and the meter will prompt for the input of the response factor.

5) If the response factor displayed is not the desired one, use the <SCROLL> key as described the previous section above under "Standard Operation - Changing Response Factor Without Recalibrating". If the response factor is correct, skip this step by pressing:



The meter will calculate and display the current temperature.

6) Move to the next screen by pressing:



The meter will prompt for the blank to be entered and the calibration procedure to begin by displaying "-bL-".

7) Remove the screw cap and insert the prepared blank vial, replace the cap and begin calibration by pressing:



The display will blink showing the selected calibration curve and response factor. The meter will display "0" for three seconds and prompt for the calibration standard by displaying "-CSd".

8) Remove the screw cap and blank vial and insert the calibration standard vial. Read the calibration standard by pressing:



The display will blink showing the selected calibration curve and response factor. The display will read "1000" for three seconds and display the currently selected calibration curve and response factor continuously. The meter is now in the read mode.

9) Proceed with reading the unknown samples by following the procedure for "Standard Operation" above, beginning with step 2.

Special Operating Conditions:

Replacement of Battery:

<u>NOTE</u>: Use ONLY 9V Alkaline or 9V Lithium battery. Use of carbon/zinc battery will cause the PetroFLAG meter to malfunction.

Open the battery compartment by sliding the compartment door back (indicated by the arrow on the back of the unit). Lift out the old battery from the compartment and carefully unsnap the battery from the wire harness/connector. Replace with a fresh alkaline battery by snapping the wire harness/connector onto the new battery making sure the polarity is correct (The snaps will only go on one way). Reinsert the battery and connector into the compartment being careful not to twist/damage the connector wires. Replace compartment door by sliding the door forward until the latch clicks.

Operation of the Meter After the Battery has been Disconnected:

When the battery has been disconnected the microprocessor will automatically return to the MAIN MENU once the battery has been reconnected. The meter, however, will not be in a *read* mode but is calibrated for use, unless other factors warrant recalibration. The operations to be performed will determine the exact steps to be followed. The steps to follow are described above in the various sections of "Analyzer Operation Examples."

Meter Left to Turn Off in Other Mode:

When the meter is left in any "screen" for five minutes the meter will shut off automatically. The meter will return to last active screen when the <READ/ON> key is pressed.

Helpful Suggestions and Safety Precautions

When PetroFLAG test results indicate no hydrocarbons are present, the sample can be sent in for certified laboratory confirmatory analysis. All environmental soil sampling used for final closure should be performed using methods that are approved by the local regulating agency.

Personal protection should be worn during soil sampling and testing. A minimum of latex gloves and goggles should be worn.

Decontamination stations should be set up using appropriate cleaners and rinsing solutions. Soil sampling equipment not supplied with the reagent pack should be decontaminated between sampling locations to prevent the possibility of cross contamination.

All reagents and sampling scoops supplied with the kit are single-use disposable items. Therefore, <u>do</u> <u>not</u> reuse spoons, tubes, filters, or vials. The electronic balance is *NOT* disposable.

Checkambient temperature BEFORE extracting soils, when a calibration procedure is not planned for the current batch of test samples.

Make sure the filter disks are screwed on tightly before adding the soil extract to a filter syringe.

<u>Do not</u> leave the PetroFLAG analyzer in direct sunlight when not in use. Store the instrument in the protective carrying case with the lid closed.

Make sure that the contamination at the site is characterized at some time during the investigation.

Avoid sampling organic matter. Scrape away organic material (leaves, sticks, etc.) before sampling.

Avoid sampling directly under pine, cedar, and fir trees unless the sample is collected below the organic layer. Do not collect samples from areas where tree roots have been encountered.

Avoid sampling directly beneath creosote bushes, sage brush and other oil bearing plants.

Commonly Asked Questions

What are the response factors?

A response factor (RF) is the relationship between the analyte of interest and the calibration standard. The turbidity formed in the development solution by the sample is compared to the calibration standard followed by a calculation which determines the correct concentration for your contaminant. For Example: Equal concentrations of diesel and mineral oil do not produce the same level of turbidity. A RF value of 10 for mineral oil divided by the RF value of 5 for diesel produces a result of 2. This means that mineral oil forms twice the turbidity of diesel at the same concentration. Stated another way, 250ppm mineral oil forms the same turbidity as 500 ppm diesel. For more information please see Appendix A in the Manual.

Why doesn't my calibration standard read 1000ppm when I re-read it after calibrating?

This is directly related to the first question. The calibration standard is 1000 ppm mineral oil, therefore, if you read it on any RF other than 10 you will get a different number.

How long are my samples good for after they develop for 10 minutes?

The PetroFLAG development process is a temporary reaction, therefore, readings should be taken right at the end of the 10 minute development period. The turbidity will continue to develop for period of time, after which the solution will begin to fade. Do NOT attempt to reread the sample as results may vary due to these changes in the solution. No measurements should be taken after 20 minutes. This means you must record your data as it is generated because you cannot save your sample vials for future analysis.

After I prepare a set of calibration solutions how long are they good for?

Since the PetroFLAG development chemistry fades over time they are only good for a single use and the 10 minute time window should be adhered to.

The screen is displaying an error code, what does it mean?

See the reference table in Appendix D for a list of "Error Conditions".

What can I do if my reading is over-range?

Process a new sample using a 1 gram soil sample and multiply the end result by 10. This sample dilution will allow you to read up to 10,000-15,000 ppm on most samples (1-1.5%).

The meter is "stuck" in the calibration program mode with the "1C" or "2C" characters flashing?

The meter will not allow normal calibration procedure or sample measurement when the <READ/ON> key is pressed, but returns to a flashing "1C" or "2C" screen. This is usually caused by use of a non-alkaline battery. Replacement with a fresh 9V Alkaline battery should eliminate the problem and the meter should return to normal operation.

Caution

When opening the break-top ampules *DO NOT* remove the plastic sleeve from the top. It is there for your protection. Removing it may result in personal injury.

The Extraction Solvent and Calibration Standards contain methanol and are Flammable and Poisonous.

Wear rubber gloves and safety glasses while performing tests.

Dispose of all used reagents and soil properly.

Read the Material Safety Data Sheet before performing test.

Manufacturer's Warranty

The reagents and supplies used in the PetroFLAG test are warranted to be free of defects in material and workmanship until the expiration date stamped on the box. Manufacturer's sole and exclusive liability under this warranty shall be limited to replacement of any materials that are proved to be defective. Manufacturer shall not be liable for any incidental or consequential damages.

Reliable test results are highly dependent upon the care with which the directions are followed and, consequently, cannot be guaranteed.

Appendix A: PetroFLAG Response Curves

Most fuels, lubes and greases are complex mixtures of various hydrocarbons having a broad range of physical and chemical properties. The PetroFLAG system will detect a majority of the ecologically important hydrocarbon mixtures. The PetroFLAG responses to some typical hydrocarbon contaminants are plotted in figure 1⁵.

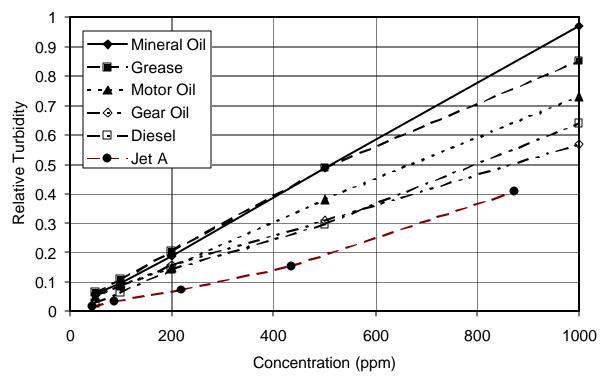


Figure 1: Relative Intensity Data for Common Analytes

⁵The lower limit of quantification, using a 10 gram sample size, is 1000 ppm for gasoline (linear range from 1000 ppm to 5,000 ppm). Brake fluid, phosphate ester based hydraulic oil, or other water soluble compounds will not be detected by the PetroFLAG system.

Appendix B: Comparison with Laboratory Methods

In field trials, the PetroFLAG system was used at sites contaminated with diesel fuel or with oil and grease. In both cases the PetroFLAG results correlated very well with EPA laboratory methods. Both EPA methods 8015B and 418.1 were used to analyze the samples from the diesel site. The resulting correlations were 89% and 92% respectively⁶. The samples from the oil and grease site were analyzed using EPA method 418.1 for soil. The lab results confirmed the PetroFLAG results with no false negatives and only 2 false positives (10%). When comparing the field results and the lab results for the field split samples, the correlation between the PetroFLAG data and EPA method 418.1 for the laboratory split samples was 90% ⁷.

When comparing the PetroFLAG field results with laboratory results using EPA methods it is important to keep in mind that EPA laboratory methods for TPH are known to have variable extraction efficiency. The extraction efficiency achieved using EPA laboratory methods varies with soil type and moisture content. In addition, the degree to which moisture affects the extraction is dependent on how the individual laboratory is implementing the method. It is, therefore, important to verify that the lab used for comparison is performing the method properly and that the recovery is known.

Another important factor affecting laboratory confirmation analysis is the inhomogeneous nature

of soil samples. Whenever possible, homogenize samples using standard methods⁸ before taking "splits" to send to the lab for confirmation.

⁶Wright, Keith A., "Evaluation of a New Field Test Kit for Determining Total Petroleum Hydrocarbon Concentrations in Soil at a Site Contaminated by Diesel Fuel", Presented at the AEHS Conference on "Hydrocarbon Contaminated Soils", January 11-13, 1995, New Orleans, LA.

⁷Wright, Keith A. and Jermstad, David B., "Evaluation of a Rapid Field Analytical Test Kit for Assessing Hydrocarbon Soil Contamination", Presented at the "Third International Conference On-Site Analysis", January 22-25, 1995 Houston, TX.

⁸See for example: Pitard, Francis F., <u>Pierre Gy's Sampling Theory and Sampling Practice</u>, Volumes 1 and 2, CRC Press, Inc., Boca Raton, FL, 1992).

Appendix C: Determining the Response Factor for Hydrocarbons Not Listed in Table 1

The response factors listed in Table 1 are calculated from response curves similar to those in Figure 1 in Appendix A. The response factor is equal to the slope of the response curve multiplied by 10. The slope of the response curve for the analyte is calculated from the response of the specific analyte relative to the response of the calibration standard. The calibration standard has a slope of one and a response factor of 10 on the PetroFLAG meter. Multiplying the slope of a specific analyte's response curve by 10 yields the appropriate response factor for that analyte.

When a suspected contaminant is not listed in Table 1, there are a few methods that may be used to determine the response factor. The method used is determined by the information and facilities available. The most accurate method would be to replicate the data in Figure 1 for the specific analyte, and then calculate the response factor from the slope of the response curve.

Initially, prepare soil standards from a single homogeneous batch of clean soil spiked at a minimum of 5 different concentrations between 100 and 1000 ppm. (For light hydrocarbons, a higher concentration range can be used.) Next, analyze the soil standards in triplicate using a calibrated PetroFLAG meter set to a response factor of 10. Plot the results with the true spiked concentrations on the "X" axis and the meter readings on the "Y" axis. The slope of the regression line (least squares line) through the data points multiplied by 10 is the response factor that should be used for this analyte. To avoid a low bias and false negatives, round the resulting number down to the nearest whole number when selecting the response factor for the meter. This method can be used if either the contaminant is known or a sample of the neat product is available.

<u>NOTE</u>: When the soil used to prepare the spiked soil standards is not actually clean but contains some hydrocarbons, the curve will have a positive intercept. This result should not affect the calculated response factor provided that the highest

spiked standard does not read higher than 1000 ppm on the PetroFLAG meter.

When the contaminant is unknown and a sample of the pure product is not available, then an alternative method can be used. The PetroFLAG results, with the meter set to response factor 10, can be compared with laboratory results from split samples analyzed in triplicate. This method requires extreme care in the homogenizing of the bulk material and also, the preparation of the split samples. Improper sample preparation can result in errors of 100 to 200% or greater. To minimize the effects of this sample variation, as many samples as possible should be analyzed (greater than 20) and the concentrations used should be evenly distributed over the range of 100 to 1000 ppm. Once the data has been collected, plot the data as described above using the laboratory reference method results as the known concentration. The slope of the regression line multiplied by 10 is then the response factor.

<u>NOTE</u>: This method is not as precise as the spike method and any bias in the laboratory method will result in an error in determining this response factor. It is important to check both the laboratory method and the lab performing the analysis thoroughly before using it as the reference method. (See Appendix B)

If the facilities are not available to perform these tests contact Dexsil for advice.

Appendix D: Error Conditions

Table 2: Error Conditions

Message	Cause	Solution
Flashing Concentration Reading [Applies to Unknown Measurements]	Over range condition. Sample concentration outside of linear range.	Use smaller sample (1 gram recommended) and rerun.
Flashing "EEEE" [Applies to Unknown Measurements]	Sensor over range condition. Sample concentration too high.	Use smaller sample (1 gram recommended) and rerun.
"Err0" [Applies to Calibration Mode]	Blank and Calibration Standard vials mixed up. Blank or Calibration Standard outside of QC window (bL too high or CSd too low).	Check calibration vials. Rerun and/or make up new ones.
"Err1" [Applies to All Modes]	Readings from the two optical channels do not agree.	Check vial and reread. If error remains, rerun using another vial.
"Err2" [Applies to Unknown Measurements]	Sample is reading lower than the blank, e.g., Calibration Blank soil unusually high background or not zero.	Recalibrate using true Blank soil.
"Err3" [Applies to Calibration Mode]	Blank or Calibration Standard outside of QC window (bL too low or CSd too high).	Recalibrate using fresh calibration solutions.
"Err4" [Applies to Unknown Measurements]	Absolute temperature difference between calibration and reading exceeds 10°C.	Recalibrate at current temperature.
"Err5" [Applies to All Modes]	Ambient temperature outside of operating range. (4°C - 45°C)	Remove meter and reagents to climate controlled environment to recalibrate/rerun.
"LP"	Low Power	Replace battery.

Appendix E: Meter Specifications

A/D Resolution: 0.5 ppm

Display Resolution: 1 ppm

Precision: Analyte Dependent

From MDL to Max Linear Range (MLR) ±10% +5 ppm

From Max Linear Range to Max Quantifiable Range (MQR) ± 20%

Measurement Range: 10-10,000 ppm (linear range analyte dependent)

Operating Temperature: 4°C to 45°C

Quantification Limit: Analyte Dependent Approx. Approx.

 Response Factor
 MLR (ppm)*
 MQR (ppm)*

 15
 730
 1,460

 10
 1,000
 2,000

 5
 2,000
 4,000

 2
 5,000
 10,000

Program Storage: EEPROM

Calibration Storage: EEPROM

Display: 4 digit ½ inch seven segment LCD

Batteries: One 9V Alkaline (included) [Use only Alkaline or Lithium type]

Battery Life: Approx. 4000 measurements or 1 year (using a 550 mAh alkaline battery)

Dimensions: length=5.75" width=3.5" height=2"

Weight: 9.85 oz (280 g)

^{*}Actual limits realized in the field are temperature and device dependent. PetroFLAG meter automatically warns user when each limit has been reached.

APPENDIX F LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell Civil & Environmental Consultants Inc 700 Cherrington Parkway Moon Township, Pennsylvania 15108

Generated 9/27/2023 12:27:42 PM

JOB DESCRIPTION

SEAWOLD 1 12 Federal #091H

JOB NUMBER

880-33484-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated9/27/2023 12:27:42 PM

Authorized for release by Travis Richter, Project Manager <u>Travis.Richter@et.eurofinsus.com</u> (281)794-7216 •

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16

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Laboratory Job ID: 880-33484-1

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Qualifiers

GC	VOA
Qual	lifier

В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	$Result \ is \ less \ than \ the \ RL \ but \ greater \ than \ or \ equal \ to \ the \ MDL \ and \ the \ concentration \ is \ an \ approximate \ value.$

Qualifier Description

Qualifier Description

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

GC Semi VOA Qualifier

F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

Eurofins Midland

Definitions/Glossary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Job ID: 880-33484-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-33484-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/21/2023 11:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH1 0-1 (880-33484-1), BH2 2-3 (880-33484-2), BH2 3-4 (880-33484-3), BH3 0-1 (880-33484-4), BH3 2-3 (880-33484-5), BH3 3-4 (880-33484-6), BH3 4-5 (880-33484-7), BH4 1-2 (880-33484-8), BH4 2-3 (880-33484-9), BH5 0-1 (880-33484-10), BH5 3-4 (880-33484-11), BH6 1-2 (880-33484-12), BH6 2-3 (880-33484-13), BH6 3-4 (880-33484-14), BH7 3-4 (880-33484-15), BH7 4-5 (880-33484-16), BH8 2-3 (880-33484-17), BH8 3-4 (880-33484-18), BH9 2-3 (880-33484-19), BH9 3-4 (880-33484-20), BH10 0-1 (880-33484-21), BH10 2-3 (880-33484-22), BH11 1-2 (880-33484-24), BH12 2-3 (880-33484-25), BH12 3-4 (880-33484-26), BH13 0-1 (880-33484-27) and BH13 1-2 (880-33484-28).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63286 and analytical batch 880-63282 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-63317/2) and (CCV 880-63317/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-63020 and analytical batch 880-63282 contained o-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63018 and analytical batch 880-63317 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH2 2-3 (880-33484-2), BH2 3-4 (880-33484-3), BH3 3-4 (880-33484-6), BH3 4-5 (880-33484-7) and BH4 1-2 (880-33484-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH5 0-1 (880-33484-10), BH6 1-2 (880-33484-12), BH6 3-4 (880-33484-14), BH8 3-4 (880-33484-18), BH9 2-3 (880-33484-19) and BH9 3-4 (880-33484-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-63018 and analytical batch 880-63317 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Case Narrative

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Job ID: 880-33484-1 (Continued)

Laboratory: Eurofins Midland (Continued)

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63004 and analytical batch 880-63027 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-33484-A-21-B MS) and (880-33484-A-21-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-63027/20), (CCV 880-63027/5) and (LCS 880-63004/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-63004 and analytical batch 880-63027 contained OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-63004 and analytical batch 880-63027 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63008 and analytical batch 880-63029 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-63008 and analytical batch 880-63029 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63037 and analytical batch 880-63319 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Method: SW846 8021B - Volatile Organic Compounds (GC)

Client Sample ID: BH1 0-1 Date Collected: 09/18/23 15:58 Date Received: 09/21/23 11:13

Job ID: 880-33484-1

Percent Solids: 98.1

Lab Sample	ID:	880-33484-1
		Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	— <u></u>	09/21/23 16:34	09/26/23 15:16	1
Toluene	<0.000462	U F1	0.00203	0.000462	mg/Kg	₽	09/21/23 16:34	09/26/23 15:16	1
Ethylbenzene	< 0.000573	U	0.00203	0.000573	mg/Kg	₽	09/21/23 16:34	09/26/23 15:16	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	₽	09/21/23 16:34	09/26/23 15:16	1
o-Xylene	< 0.000349	U	0.00203	0.000349	mg/Kg	₽	09/21/23 16:34	09/26/23 15:16	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	\$	09/21/23 16:34	09/26/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/21/23 16:34	09/26/23 15:16	1
1 Bromonadrobonzono (Garr)									
1,4-Difluorobenzene (Surr)	90		70 - 130				09/21/23 16:34	09/26/23 15:16	1
, ,	sel Range Orga	inics (DRO) Qualifier		MDL	Unit	D	09/21/23 16:34 Prepared	09/26/23 15:16 Analyzed	1 Dil Fac
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	• •	(GC)		Unit mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	Qualifier J F1	(GC)	15.2			Prepared	Analyzed	1 Dil Fac 1
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result 24.5	Qualifier J F1	(GC) RL 50.7	15.2 15.2	mg/Kg	-	Prepared 09/21/23 14:39	Analyzed 09/22/23 10:31	1 Dil Fac 1 1
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 24.5 <15.2	Qualifier J F1 U	(GC) RL 50.7	15.2 15.2	mg/Kg mg/Kg	*	Prepared 09/21/23 14:39 09/21/23 14:39	Analyzed 09/22/23 10:31 09/22/23 10:31	1 Dil Fac 1 1 1 Dil Fac
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 24.5 <15.2	Qualifier J F1 U	(GC) RL 50.7 50.7	15.2 15.2	mg/Kg mg/Kg	*	Prepared 09/21/23 14:39 09/21/23 14:39 09/21/23 14:39	Analyzed 09/22/23 10:31 09/22/23 10:31 09/22/23 10:31	1 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RLMDL Unit D Prepared Analyzed Dil Fac ₩ 09/26/23 14:01 Chloride 117 5.08 0.401 mg/Kg

Client Sample ID: BH2 2-3

Lab Sample ID: 880-33484-2

Matrix: Solid Percent Solids: 95.6

Date Collected: 09/19/23 07:57 Date Received: 09/21/23 11:13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000402	U	0.00209	0.000402	mg/Kg	*	09/21/23 16:34	09/26/23 15:42	1
Toluene	< 0.000476	U	0.00209	0.000476	mg/Kg	₽	09/21/23 16:34	09/26/23 15:42	1
Ethylbenzene	<0.000590	U	0.00209	0.000590	mg/Kg	₽	09/21/23 16:34	09/26/23 15:42	1
m-Xylene & p-Xylene	<0.00105	U	0.00418	0.00105	mg/Kg	₽	09/21/23 16:34	09/26/23 15:42	1
o-Xylene	< 0.000359	U	0.00209	0.000359	mg/Kg	₽	09/21/23 16:34	09/26/23 15:42	1
Xylenes, Total	<0.00105	U	0.00418	0.00105	mg/Kg	₽	09/21/23 16:34	09/26/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				09/21/23 16:34	09/26/23 15:42	1
1,4-Difluorobenzene (Surr)	114		70 - 130				09/21/23 16:34	09/26/23 15:42	1

Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.8	J	52.6	15.8	mg/Kg	*	09/21/23 14:39	09/22/23 11:42	1
Diesel Range Organics (Over C10-C28)	<15.8	U	52.6	15.8	mg/Kg	₩	09/21/23 14:39	09/22/23 11:42	1
Oll Range Organics (Over C28-C36)	<15.8	U	52.6	15.8	mg/Kg	₽	09/21/23 14:39	09/22/23 11:42	1

Eurofins Midland

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH2 2-3

Date Collected: 09/19/23 07:57 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-2

Matrix: Solid

Percent Solids: 95.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	09/21/23 14:39	09/22/23 11:42	1
o-Terphenyl	109		70 - 130	09/21/23 14:39	09/22/23 11:42	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorida	403	5 19	0.410	ma/Ka			09/26/23 14:08	1

Client Sample ID: BH2 3-4 Lab Sample ID: 880-33484-3

Date Collected: 09/19/23 08:00 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000406	U	0.00211	0.000406	mg/Kg	*	09/21/23 16:34	09/26/23 16:08	1
Toluene	<0.000481	U	0.00211	0.000481	mg/Kg	₩	09/21/23 16:34	09/26/23 16:08	1
Ethylbenzene	<0.000595	U	0.00211	0.000595	mg/Kg	₽	09/21/23 16:34	09/26/23 16:08	1
m-Xylene & p-Xylene	<0.00106	U	0.00422	0.00106	mg/Kg	₩	09/21/23 16:34	09/26/23 16:08	1
o-Xylene	< 0.000363	U	0.00211	0.000363	mg/Kg	₽	09/21/23 16:34	09/26/23 16:08	1
Xylenes, Total	<0.00106	U	0.00422	0.00106	mg/Kg	₽	09/21/23 16:34	09/26/23 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				09/21/23 16:34	09/26/23 16:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/21/23 16:34	09/26/23 16:08	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.4	J	52.8	15.9	mg/Kg	*	09/21/23 14:39	09/22/23 12:05	1
Diesel Range Organics (Over C10-C28)	<15.9	U	52.8	15.9	mg/Kg	₽	09/21/23 14:39	09/22/23 12:05	1
Oll Range Organics (Over C28-C36)	<15.9	U	52.8	15.9	mg/Kg	₽	09/21/23 14:39	09/22/23 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/21/23 14:39	09/22/23 12:05	1
o-Terphenyl	99		70 - 130				09/21/23 14:39	09/22/23 12:05	1

Method: EPA 300.0 - Anions, Ion C	hromatograph	ny - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	487		5.28	0.417	mg/Kg	<u></u>		09/26/23 14:14	1

Client Sample ID: BH3 0-1 Lab Sample ID: 880-33484-4 Date Collected: 09/19/23 08:11 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 85.4

atile Organic Comp	ounds (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000452	U	0.00235	0.000452	mg/Kg	₩	09/21/23 16:34	09/26/23 16:34	1
< 0.000535	U	0.00235	0.000535	mg/Kg	₩	09/21/23 16:34	09/26/23 16:34	1
< 0.000663	U	0.00235	0.000663	mg/Kg	₩	09/21/23 16:34	09/26/23 16:34	1
<0.00119	U	0.00469	0.00119	mg/Kg	₽	09/21/23 16:34	09/26/23 16:34	1
<0.000404	U	0.00235	0.000404	mg/Kg	₩	09/21/23 16:34	09/26/23 16:34	1
< 0.00119	U	0.00469	0.00119	mg/Kg	₩	09/21/23 16:34	09/26/23 16:34	1
	Result <0.000452 <0.000535 <0.000663 <0.00119 <0.000404	Result Qualifier Compounds (GC) Result Qualifier Compounds Compo	<0.000452	Result Qualifier RL MDL <0.000452	Result Qualifier RL MDL Unit <0.000452	Result Qualifier RL MDL Unit D <0.000452	Result Qualifier RL MDL Unit D Prepared <0.000452	Result Qualifier RL MDL Unit D Prepared Analyzed <0.000452

Eurofins Midland

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Date Collected: 09/19/23 08:11 Date Received: 09/21/23 11:13

Job ID: 880-33484-1

Percent Solids: 85.4

Client Sample ID: BH3 0-1	Lab Sample ID: 880-33484-4
Date Collected: 09/19/23 08:11	Matrix: Solid

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 124 70 - 130 09/21/23 16:34 09/26/23 16:34 1,4-Difluorobenzene (Surr) 92 70 - 130 09/21/23 16:34 09/26/23 16:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.3	J	59.1	17.7	mg/Kg	*	09/21/23 14:39	09/22/23 12:27	1
Diesel Range Organics (Over C10-C28)	2980		59.1	17.7	mg/Kg	₩	09/21/23 14:39	09/22/23 12:27	1
OII Range Organics (Over C28-C36)	<17.7	U	59.1	17.7	mg/Kg	₽	09/21/23 14:39	09/22/23 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/21/23 14:39	09/22/23 12:27	1
o-Terphenyl	109		70 - 130				09/21/23 14:39	09/22/23 12:27	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3470		29.3	2.31	mg/Kg	₩		09/26/23 14:34	5

Client Sample ID: BH3 2-3 Lab Sample ID: 880-33484-5

Date Collected: 09/19/23 08:13 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 91.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000421	U	0.00219	0.000421	mg/Kg		09/21/23 16:34	09/26/23 17:00	1
Toluene	0.000647	J	0.00219	0.000498	mg/Kg	₽	09/21/23 16:34	09/26/23 17:00	1
Ethylbenzene	<0.000617	U	0.00219	0.000617	mg/Kg	₽	09/21/23 16:34	09/26/23 17:00	1
m-Xylene & p-Xylene	<0.00110	U	0.00437	0.00110	mg/Kg	₽	09/21/23 16:34	09/26/23 17:00	1
o-Xylene	0.000852	J	0.00219	0.000376	mg/Kg	₽	09/21/23 16:34	09/26/23 17:00	1
Xylenes, Total	<0.00110	U	0.00437	0.00110	mg/Kg	₽	09/21/23 16:34	09/26/23 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/21/23 16:34	09/26/23 17:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/21/23 16:34	09/26/23 17:00	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.2	J	54.7	16.4	mg/Kg	*	09/21/23 14:39	09/22/23 12:50	1
Diesel Range Organics (Over C10-C28)	57.5		54.7	16.4	mg/Kg	₽	09/21/23 14:39	09/22/23 12:50	1
Oll Range Organics (Over C28-C36)	<16.4	U	54.7	16.4	mg/Kg	₽	09/21/23 14:39	09/22/23 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Eurofins Midland

09/22/23 12:50

09/22/23 12:50

Analyzed

09/26/23 14:41

09/21/23 14:39

09/21/23 14:39

Prepared

D

<u>~</u>

70 - 130

70 - 130

RL

27.3

MDL Unit

2.15 mg/Kg

73

92

2320

Result Qualifier

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Dil Fac

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH3 3-4

Date Collected: 09/19/23 08:15

Date Received: 09/21/23 11:13

Job ID: 880-33484-1

Lab Sample ID: 880-33484-6

Matrix: Solid

Percent Solids: 90.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000421	U	0.00219	0.000421	mg/Kg	<u></u>	09/21/23 16:34	09/26/23 17:26	1
Toluene	< 0.000499	U	0.00219	0.000499	mg/Kg	₽	09/21/23 16:34	09/26/23 17:26	1
Ethylbenzene	<0.000618	U	0.00219	0.000618	mg/Kg	₽	09/21/23 16:34	09/26/23 17:26	1
m-Xylene & p-Xylene	<0.00110	U	0.00438	0.00110	mg/Kg	₽	09/21/23 16:34	09/26/23 17:26	1
o-Xylene	< 0.000376	U	0.00219	0.000376	mg/Kg	₽	09/21/23 16:34	09/26/23 17:26	1
Xylenes, Total	<0.00110	U	0.00438	0.00110	mg/Kg	\$	09/21/23 16:34	09/26/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				09/21/23 16:34	09/26/23 17:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/21/23 16:34	09/26/23 17:26	1
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies		inics (DRO)					09/21/23 16:34	09/26/23 17:26	1
• * * * * * * * * * * * * * * * * * * *	sel Range Orga	inics (DRO) Qualifier		MDL	Unit	D	09/21/23 16:34 Prepared	09/26/23 17:26 Analyzed	·
Method: SW846 8015B NM - Dies	sel Range Orga	Qualifier	(GC)		Unit mg/Kg	<u>D</u>			
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	Qualifier J	(GC)	16.4			Prepared	Analyzed	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result 29.1	Qualifier J	(GC) RL 54.8	16.4 16.4	mg/Kg	-	Prepared 09/21/23 14:39	Analyzed 09/22/23 13:14	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 29.1 18.9	Qualifier J U	(GC) RL 54.8	16.4 16.4	mg/Kg	*	Prepared 09/21/23 14:39 09/21/23 14:39	Analyzed 09/22/23 13:14 09/22/23 13:14	1 Dil Fac 1 1 1 Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	648		5.47	0.432	mg/Kg	<u></u>		09/26/23 14:48	1

70 - 130

Client Sample ID: BH3 4-5

o-Terphenyl

Date Collected: 09/19/23 08:17

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-7

09/21/23 14:39 09/22/23 13:14

Matrix: Solid Percent Solids: 79.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000479	U	0.00249	0.000479	mg/Kg	₩	09/21/23 16:34	09/26/23 17:53	-
Toluene	<0.000568	U	0.00249	0.000568	mg/Kg	₽	09/21/23 16:34	09/26/23 17:53	
Ethylbenzene	<0.000703	U	0.00249	0.000703	mg/Kg	₽	09/21/23 16:34	09/26/23 17:53	
m-Xylene & p-Xylene	<0.00126	U	0.00498	0.00126	mg/Kg	₽	09/21/23 16:34	09/26/23 17:53	
o-Xylene	<0.000428	U	0.00249	0.000428	mg/Kg	₽	09/21/23 16:34	09/26/23 17:53	
Xylenes, Total	<0.00126	U	0.00498	0.00126	mg/Kg	₽	09/21/23 16:34	09/26/23 17:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				09/21/23 16:34	09/26/23 17:53	-
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				09/21/23 16:34	09/26/23 17:53	

Method: SW846 8015B NM - Diesel	thod: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	33.9	J	62.1	18.6	mg/Kg	*	09/21/23 14:39	09/22/23 13:38	1	
Diesel Range Organics (Over C10-C28)	292		62.1	18.6	mg/Kg	₽	09/21/23 14:39	09/22/23 13:38	1	
Oll Range Organics (Over C28-C36)	<18.6	U	62.1	18.6	mg/Kg	₽	09/21/23 14:39	09/22/23 13:38	1	

Eurofins Midland

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Lab Sample ID: 880-33484-7

Matrix: Solid

Percent Solids: 79.9

Client Sample ID: BH3 4-5
Data Callacted: 00/10/22 09:17

Date Collected: 09/19/23 08:17 Date Received: 09/21/23 11:13

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76	70 - 130	09/21/23 14:39	09/22/23 13:38	1
o-Terphenyl	95	70 - 130	09/21/23 14:39	09/22/23 13:38	1
Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble	9			

Client Sample ID: BH4 1-2 Lab Sample ID: 880-33484-8

Date Collected: 09/19/23 08:05

Date Received: 09/21/23 11:13

Matrix: Solid
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg		09/21/23 16:34	09/26/23 18:19	1
Toluene	<0.000474	U	0.00208	0.000474	mg/Kg	₽	09/21/23 16:34	09/26/23 18:19	1
Ethylbenzene	<0.000587	U	0.00208	0.000587	mg/Kg	₽	09/21/23 16:34	09/26/23 18:19	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	₽	09/21/23 16:34	09/26/23 18:19	1
o-Xylene	< 0.000357	U	0.00208	0.000357	mg/Kg	₽	09/21/23 16:34	09/26/23 18:19	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	₩	09/21/23 16:34	09/26/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				09/21/23 16:34	09/26/23 18:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130				09/21/23 16:34	09/26/23 18:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.3	J	52.2	15.7	mg/Kg	*	09/21/23 14:39	09/22/23 14:02	1
Diesel Range Organics (Over C10-C28)	<15.7	U	52.2	15.7	mg/Kg	₽	09/21/23 14:39	09/22/23 14:02	1
Oll Range Organics (Over C28-C36)	<15.7	U	52.2	15.7	mg/Kg	₽	09/21/23 14:39	09/22/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				09/21/23 14:39	09/22/23 14:02	1
o-Terphenyl	95		70 - 130				09/21/23 14:39	09/22/23 14:02	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		5.22	0.412	mg/Kg	<u> </u>		09/26/23 15:01	1

 Client Sample ID: BH4 2-3
 Lab Sample ID: 880-33484-9

 Date Collected: 09/19/23 08:08
 Matrix: Solid

 Date Received: 09/21/23 11:13
 Percent Solids: 96.8

atile Organic Comp	ounds (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000396	U	0.00206	0.000396	mg/Kg	₩	09/21/23 16:34	09/26/23 18:45	1
< 0.000469	U	0.00206	0.000469	mg/Kg	₩	09/21/23 16:34	09/26/23 18:45	1
<0.000581	U	0.00206	0.000581	mg/Kg	₩	09/21/23 16:34	09/26/23 18:45	1
<0.00104	U	0.00412	0.00104	mg/Kg	₽	09/21/23 16:34	09/26/23 18:45	1
< 0.000354	U	0.00206	0.000354	mg/Kg	₩	09/21/23 16:34	09/26/23 18:45	1
<0.00104	U	0.00412	0.00104	mg/Kg	₩	09/21/23 16:34	09/26/23 18:45	1
	Result <0.000396 <0.000469 <0.000581 <0.00104 <0.000354	Result Qualifier	<0.000396 U 0.00206 <0.000469 U 0.00206 <0.000581 U 0.00206 <0.00104 U 0.00412 <0.000354 U 0.00206	Result Qualifier RL MDL <0.000396	Result Qualifier RL MDL Unit <0.000396	Result Qualifier RL MDL Unit D <0.000396	Result Qualifier RL MDL Unit D Prepared <0.000396	Result Qualifier RL MDL Unit D Prepared Analyzed <0.000396

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Lab Sample ID: 880-33484-9

Matrix: Solid

Percent Solids: 96.8

09/22/23 14:26

09/22/23 14:26

09/21/23 14:39

09/21/23 14:39

Client Sample	ID:	BH4	2-3
Data Callestade	0140	100 00	-00

Date Collected: 09/19/23 08:08 Date Received: 09/21/23 11:13

1-Chlorooctane

o-Terphenyl

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				09/21/23 16:34	09/26/23 18:45	1
1,4-Difluorobenzene (Surr)	89		70 - 130				09/21/23 16:34	09/26/23 18:45	1
	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.5	J	52.0	15.6	mg/Kg	<u></u>	09/21/23 14:39	09/22/23 14:26	1
Diesel Range Organics (Over C10-C28)	184		52.0	15.6	mg/Kg	₩	09/21/23 14:39	09/22/23 14:26	1
Oll Range Organics (Over C28-C36)	<15.6	U	52.0	15.6	mg/Kg	₩	09/21/23 14:39	09/22/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412	F1	5.11	0.404	mg/Kg	<u></u>		09/26/23 15:08	1

70 - 130

70 - 130

96

Client Sample ID: BH5 0-1 Lab Sample ID: 880-33484-10

Date Collected: 09/19/23 08:19
Date Received: 09/21/23 11:13
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000451	U	0.00234	0.000451	mg/Kg	*	09/21/23 16:34	09/26/23 19:11	1
Toluene	<0.000534	U	0.00234	0.000534	mg/Kg	₽	09/21/23 16:34	09/26/23 19:11	
Ethylbenzene	<0.000662	U	0.00234	0.000662	mg/Kg	₽	09/21/23 16:34	09/26/23 19:11	•
m-Xylene & p-Xylene	<0.00118	U	0.00469	0.00118	mg/Kg	₽	09/21/23 16:34	09/26/23 19:11	
o-Xylene	< 0.000403	U	0.00234	0.000403	mg/Kg	₩	09/21/23 16:34	09/26/23 19:11	1
Xylenes, Total	<0.00118	U	0.00469	0.00118	mg/Kg	₩	09/21/23 16:34	09/26/23 19:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				09/21/23 16:34	09/26/23 19:11	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/21/23 16:34	09/26/23 19:11	1
		,	. ,						
Method: SW846 8015B NM - Dies	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	. ,	MDL 17.7	Unit mg/Kg	<u>D</u>	Prepared 09/21/23 14:39	Analyzed 09/22/23 14:49	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier	RL			— <u> </u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 41.1	Qualifier	RL 59.1	17.7	mg/Kg	<u> </u>	09/21/23 14:39	09/22/23 14:49	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 41.1	Qualifier J	RL 59.1	17.7	mg/Kg	<u> </u>	09/21/23 14:39	09/22/23 14:49	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 41.1	Qualifier J	RL 59.1	17.7	mg/Kg	<u> </u>	09/21/23 14:39 09/21/23 14:39	09/22/23 14:49 09/22/23 14:49	1
	Result 41.1 1500 <17.7	Qualifier J	FL 59.1 59.1	17.7	mg/Kg	<u> </u>	09/21/23 14:39 09/21/23 14:39 09/21/23 14:39	09/22/23 14:49 09/22/23 14:49 09/22/23 14:49	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 41.1 1500 <17.7 %Recovery	Qualifier J	RL 59.1 59.1 59.1 <i>Limits</i>	17.7	mg/Kg	<u> </u>	09/21/23 14:39 09/21/23 14:39 09/21/23 14:39 Prepared	09/22/23 14:49 09/22/23 14:49 09/22/23 14:49 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 41.1 1500 <17.7 %Recovery 81 102	Qualifier J U Qualifier	8L 59.1 59.1 59.1 Limits 70 - 130 70 - 130	17.7	mg/Kg	<u> </u>	09/21/23 14:39 09/21/23 14:39 09/21/23 14:39 Prepared 09/21/23 14:39	09/22/23 14:49 09/22/23 14:49 09/22/23 14:49 Analyzed 09/22/23 14:49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 41.1 1500 <17.7 %Recovery 81 102 Chromatograp	Qualifier J U Qualifier	8L 59.1 59.1 59.1 Limits 70 - 130 70 - 130	17.7	mg/Kg mg/Kg mg/Kg	<u> </u>	09/21/23 14:39 09/21/23 14:39 09/21/23 14:39 Prepared 09/21/23 14:39	09/22/23 14:49 09/22/23 14:49 09/22/23 14:49 Analyzed 09/22/23 14:49	Dil Fac

Dil Fac

Analyzed

09/26/23 15:34

Client Sample Results

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH5 3-4

Date Collected: 09/19/23 08:25

Date Received: 09/21/23 11:13

Surrogate

Chloride

Job ID: 880-33484-1

Lab Sample ID: 880-33484-11

Prepared

Matrix: Solid Percent Solids: 79.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000481	U	0.00250	0.000481	mg/Kg		09/21/23 16:34	09/26/23 20:56	1
Toluene	< 0.000570	U	0.00250	0.000570	mg/Kg	₽	09/21/23 16:34	09/26/23 20:56	1
Ethylbenzene	<0.000706	U	0.00250	0.000706	mg/Kg	₽	09/21/23 16:34	09/26/23 20:56	1
m-Xylene & p-Xylene	<0.00126	U	0.00500	0.00126	mg/Kg	₽	09/21/23 16:34	09/26/23 20:56	1
o-Xylene	<0.000430	U	0.00250	0.000430	mg/Kg	₽	09/21/23 16:34	09/26/23 20:56	1
Xylenes, Total	<0.00126	U	0.00500	0.00126	mg/Kg	₽	09/21/23 16:34	09/26/23 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/21/23 16:34	09/26/23 20:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130				09/21/23 16:34	09/26/23 20:56	1
=	sal Panga Orga	nice (DBO)	(CC)						
Method: SW846 8015B NM - Dies	sei italiye Olya	IIICS (DRO)	(60)						
	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	• •	MDL 18.7	Unit mg/Kg	<u></u>	Prepared 09/21/23 14:39	Analyzed 09/22/23 15:40	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier J	RL	18.7					Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble	e					
o-Terphenyl	95	70 - 130			09/21/23 14:39	09/22/23 15:40	1
1-Chlorooctane	73	70 - 130		-	09/21/23 14:39	09/22/23 15:40	1

Limits

1430 Client Sample ID: BH6 1-2

%Recovery Qualifier

Lab Sample ID: 880-33484-12 Date Collected: 09/19/23 09:27 **Matrix: Solid** Percent Solids: 95.9 Date Received: 09/21/23 11:13

6.30

0.498 mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg		09/21/23 16:34	09/26/23 21:22	1
Toluene	< 0.000472	U	0.00207	0.000472	mg/Kg	₽	09/21/23 16:34	09/26/23 21:22	1
Ethylbenzene	<0.000585	U	0.00207	0.000585	mg/Kg	₽	09/21/23 16:34	09/26/23 21:22	1
m-Xylene & p-Xylene	<0.00104	U	0.00414	0.00104	mg/Kg	₽	09/21/23 16:34	09/26/23 21:22	1
o-Xylene	< 0.000356	U	0.00207	0.000356	mg/Kg	₽	09/21/23 16:34	09/26/23 21:22	1
Xylenes, Total	<0.00104	U	0.00414	0.00104	mg/Kg	₽	09/21/23 16:34	09/26/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				09/21/23 16:34	09/26/23 21:22	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/21/23 16:34	09/26/23 21:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	28.0	J	51.9	15.6	mg/Kg	*	09/21/23 14:39	09/22/23 16:03	1	
Diesel Range Organics (Over C10-C28)	<15.6	U	51.9	15.6	mg/Kg	₽	09/21/23 14:39	09/22/23 16:03	1	
Oll Range Organics (Over C28-C36)	<15.6	U	51.9	15.6	mg/Kg	₩	09/21/23 14:39	09/22/23 16:03	1	

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Lab Sample ID: 880-33484-12

Percent Solids: 95.9

Client Sample ID: BH6 1-2 Date Collected: 09/19/23 09:27 **Matrix: Solid** Date Received: 09/21/23 11:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	09/21/23 14:39	09/22/23 16:03	1
o-Terphenyl	92		70 - 130	09/21/23 14:39	09/22/23 16:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	607		5.18	0.409	mg/Kg	#		09/26/23 15:54	1

Client Sample ID: BH6 2-3 Lab Sample ID: 880-33484-13

Date Collected: 09/19/23 09:30 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 94.2

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000546	J	0.00211	0.000406	mg/Kg		09/21/23 16:34	09/26/23 21:48	1
Toluene	<0.000481	U	0.00211	0.000481	mg/Kg	₽	09/21/23 16:34	09/26/23 21:48	1
Ethylbenzene	< 0.000596	U	0.00211	0.000596	mg/Kg	₽	09/21/23 16:34	09/26/23 21:48	1
m-Xylene & p-Xylene	<0.00107	U	0.00422	0.00107	mg/Kg	₽	09/21/23 16:34	09/26/23 21:48	1
o-Xylene	< 0.000363	U	0.00211	0.000363	mg/Kg	₽	09/21/23 16:34	09/26/23 21:48	1
Xylenes, Total	<0.00107	U	0.00422	0.00107	mg/Kg	₩	09/21/23 16:34	09/26/23 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 _ 130				09/21/23 16:34	09/26/23 21:48	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/21/23 16:34	09/26/23 21:48	1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	52.8	15.9	mg/Kg		09/21/23 14:39	09/22/23 16:27	1
Diesel Range Organics (Over C10-C28)	<15.9	U	52.8	15.9	mg/Kg	₽	09/21/23 14:39	09/22/23 16:27	1
Oll Range Organics (Over C28-C36)	<15.9	U	52.8	15.9	mg/Kg	₽	09/21/23 14:39	09/22/23 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				09/21/23 14:39	09/22/23 16:27	1
o-Terphenyl	105		70 - 130				09/21/23 14:39	09/22/23 16:27	1

Method: EPA 300.0 - Anions, Ion C	hromatography	- Soluble						
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	487	5.36	0.423	mg/Kg	<u> </u>		09/26/23 16:01	1

Client Sample ID: BH6 3-4 Lab Sample ID: 880-33484-14 Date Collected: 09/19/23 09:33 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 96.0

atile Organic Comp	ounds (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.000436	J	0.00208	0.000400	mg/Kg	₩	09/21/23 16:34	09/26/23 22:14	1
< 0.000474	U	0.00208	0.000474	mg/Kg	₩	09/21/23 16:34	09/26/23 22:14	1
<0.000587	U	0.00208	0.000587	mg/Kg	₩	09/21/23 16:34	09/26/23 22:14	1
<0.00105	U	0.00416	0.00105	mg/Kg	₽	09/21/23 16:34	09/26/23 22:14	1
< 0.000358	U	0.00208	0.000358	mg/Kg	₩	09/21/23 16:34	09/26/23 22:14	1
<0.00105	U	0.00416	0.00105	mg/Kg	₩	09/21/23 16:34	09/26/23 22:14	1
	Result 0.000436 <0.000474 <0.000587 <0.00105 <0.000358	Result Qualifier	0.000436 J 0.00208 <0.000474	Result 0.000436 Qualifier RL 0.00208 MDL 0.002400 <0.000474	Result Qualifier RL MDL Unit 0.000436 J 0.00208 0.000400 mg/Kg <0.000474	Result Qualifier RL MDL Unit D 0.000436 J 0.00208 0.000400 mg/Kg ** <0.000474	Result Qualifier RL MDL Unit D Prepared 0.000436 J 0.00208 0.000400 mg/Kg © 09/21/23 16:34 <0.000474	Result Qualifier RL MDL Unit D Prepared Analyzed 0.000436 J 0.00208 0.000400 mg/Kg © 09/21/23 16:34 09/26/23 22:14 <0.000474

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

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Client Sample ID: BH6 3-4

Date Collected: 09/19/23 09:33 Date Received: 09/21/23 11:13 Lab Sample ID: 880-33484-14

Matrix: Solid Percent Solids: 96.0

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140 S	51+	70 - 130	09/21/23 16:34	09/26/23 22:14	1

 4-Bromofluorobenzene (Surr)
 140 S1+
 70 - 130
 09/21/23 16:34
 09/26/23 22:14

 1,4-Difluorobenzene (Surr)
 91
 70 - 130
 09/21/23 16:34
 09/26/23 22:14

Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte		Qualifier		MIDE	OTITE		- riepaieu	Allalyzeu	Dillac
Gasoline Range Organics (GRO)-C6-C10	27.3	J	51.8	15.5	mg/Kg	₩	09/21/23 14:39	09/22/23 16:52	1
Diesel Range Organics (Over C10-C28)	17.6	J	51.8	15.5	mg/Kg	#	09/21/23 14:39	09/22/23 16:52	1
Oll Range Organics (Over C28-C36)	<15.5	U	51.8	15.5	mg/Kg	₽	09/21/23 14:39	09/22/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	0	9/21/23 14:39	09/22/23 16:52	1
o-Terphenyl	101		70 - 130	0	09/21/23 14:39	09/22/23 16:52	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.24	0.414	mg/Kg	₽		09/26/23 14:32	1

Client Sample ID: BH7 3-4 Lab Sample ID: 880-33484-15

Date Collected: 09/19/23 09:36

Date Received: 09/21/23 11:13

Matrix: Solid
Percent Solids: 90.6

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method. Strotto ouz 15 - Volatile	organic comp	ounus (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000426	U	0.00221	0.000426	mg/Kg		09/21/23 16:34	09/26/23 22:41	1
Toluene	<0.000504	U	0.00221	0.000504	mg/Kg	₽	09/21/23 16:34	09/26/23 22:41	1
Ethylbenzene	<0.000625	U	0.00221	0.000625	mg/Kg	₽	09/21/23 16:34	09/26/23 22:41	1
m-Xylene & p-Xylene	<0.00112	U	0.00442	0.00112	mg/Kg	₩	09/21/23 16:34	09/26/23 22:41	1
o-Xylene	<0.000380	U	0.00221	0.000380	mg/Kg	₽	09/21/23 16:34	09/26/23 22:41	1
Xylenes, Total	<0.00112	U	0.00442	0.00112	mg/Kg	₽	09/21/23 16:34	09/26/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/21/23 16:34	09/26/23 22:41	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/21/23 16:34	09/26/23 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Gg ⇔ 09/21/23 14:39 09/22/23 17:16	1
√g ⇔ 09/21/23 14:39 09/22/23 17:16	1
√g ⇔ 09/21/23 14:39 09/22/23 17:16	1
Prepared Analyzed L	Dil Fac
K	Kg © 09/21/23 14:39 09/22/23 17:16 Kg © 09/21/23 14:39 09/22/23 17:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	09/21/23 14:39	09/22/23 17:16	1
o-Terphenyl	88		70 - 130	09/21/23 14:39	09/22/23 17:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		27.6	2.18	mg/Kg	<u></u>		09/26/23 14:50	5

Eurofins Midland

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH7 4-5

Date Collected: 09/19/23 09:39

Date Received: 09/21/23 11:13

Surrogate

1-Chlorooctane

Job ID: 880-33484-1

Lab Sample ID: 880-33484-16

Prepared

09/21/23 14:39

Matrix: Solid

Percent Solids: 89.0

Analyzed

09/22/23 17:39

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000579	J	0.00224	0.000431	mg/Kg	₽	09/21/23 16:34	09/26/23 23:07	1
Toluene	<0.000510	U	0.00224	0.000510	mg/Kg	₽	09/21/23 16:34	09/26/23 23:07	1
Ethylbenzene	<0.000632	U	0.00224	0.000632	mg/Kg	₽	09/21/23 16:34	09/26/23 23:07	1
m-Xylene & p-Xylene	<0.00113	U	0.00448	0.00113	mg/Kg	₽	09/21/23 16:34	09/26/23 23:07	1
o-Xylene	<0.000385	U	0.00224	0.000385	mg/Kg	₽	09/21/23 16:34	09/26/23 23:07	1
Xylenes, Total	<0.00113	U	0.00448	0.00113	mg/Kg	₩	09/21/23 16:34	09/26/23 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				09/21/23 16:34	09/26/23 23:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/21/23 16:34	09/26/23 23:07	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
		nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier	• •	MDL 17.0	Unit mg/Kg	<u>D</u>	Prepared 09/21/23 14:39	Analyzed 09/22/23 17:39	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier J	RL						Dil Fac

o-Terphenyl	102	70 - 130		09/21/23 14:3	9 09/22/23 17:39	,
Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	1960	28.0	2 21 mg/Kg	<u> </u>	09/26/23 14:56	5

Limits

70 - 130

%Recovery Qualifier

78

Client Sample ID: BH8 2-3 Lab Sample ID: 880-33484-17

Date Collected: 09/19/23 09:48 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 94.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000405	U	0.00210	0.000405	mg/Kg		09/21/23 16:34	09/26/23 23:33	1
Toluene	<0.000480	U	0.00210	0.000480	mg/Kg	₽	09/21/23 16:34	09/26/23 23:33	1
Ethylbenzene	<0.000595	U	0.00210	0.000595	mg/Kg	₽	09/21/23 16:34	09/26/23 23:33	1
m-Xylene & p-Xylene	<0.00106	U	0.00421	0.00106	mg/Kg	₽	09/21/23 16:34	09/26/23 23:33	1
o-Xylene	<0.000362	U	0.00210	0.000362	mg/Kg	₽	09/21/23 16:34	09/26/23 23:33	1
Xylenes, Total	<0.00106	U	0.00421	0.00106	mg/Kg	₩	09/21/23 16:34	09/26/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				09/21/23 16:34	09/26/23 23:33	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/21/23 16:34	09/26/23 23:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.0	J	53.4	16.0	mg/Kg	*	09/21/23 14:39	09/22/23 18:01	1
Diesel Range Organics (Over C10-C28)	<16.0	U	53.4	16.0	mg/Kg	₩	09/21/23 14:39	09/22/23 18:01	1
Oll Range Organics (Over C28-C36)	<16.0	U	53.4	16.0	mg/Kg	⇔	09/21/23 14:39	09/22/23 18:01	1

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Dil Fac

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH8 2-3

Date Collected: 09/19/23 09:48 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-17

Matrix: Solid Percent Solids: 94.4

١	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	83		70 - 130	09/21/23 14:39	09/22/23 18:01	1
	o-Terphenyl	107		70 - 130	09/21/23 14:39	09/22/23 18:01	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		5.30	0.419	mg/Kg			09/26/23 15:01	1

Lab Sample ID: 880-33484-18 Client Sample ID: BH8 3-4

Date Collected: 09/19/23 09:51 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 79.3

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000485	U	0.00252	0.000485	mg/Kg	*	09/21/23 16:34	09/26/23 23:59	1
Toluene	< 0.000574	U	0.00252	0.000574	mg/Kg	₽	09/21/23 16:34	09/26/23 23:59	1
Ethylbenzene	<0.000711	U	0.00252	0.000711	mg/Kg	₽	09/21/23 16:34	09/26/23 23:59	1
m-Xylene & p-Xylene	<0.00127	U	0.00504	0.00127	mg/Kg	₽	09/21/23 16:34	09/26/23 23:59	1
o-Xylene	<0.000433	U	0.00252	0.000433	mg/Kg	₽	09/21/23 16:34	09/26/23 23:59	1
Xylenes, Total	<0.00127	U	0.00504	0.00127	mg/Kg	₽	09/21/23 16:34	09/26/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				09/21/23 16:34	09/26/23 23:59	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/21/23 16:34	09/26/23 23:59	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.6	J	63.6	19.1	mg/Kg	*	09/21/23 14:39	09/22/23 18:23	1
Diesel Range Organics (Over C10-C28)	<19.1	U	63.6	19.1	mg/Kg	₽	09/21/23 14:39	09/22/23 18:23	1
OII Range Organics (Over C28-C36)	<19.1	U	63.6	19.1	mg/Kg	₽	09/21/23 14:39	09/22/23 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/21/23 14:39	09/22/23 18:23	1
o-Terphenyl	111		70 - 130				09/21/23 14:39	09/22/23 18:23	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		6.36	0.502	mg/Kg	<u></u>		09/26/23 15:07	1

Client Sample ID: BH9 2-3 Lab Sample ID: 880-33484-19 Date Collected: 09/19/23 10:14 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 94.1

atile Organic Comp	ounds (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000410	U	0.00213	0.000410	mg/Kg	₽	09/21/23 16:34	09/27/23 00:25	1
<0.000485	U	0.00213	0.000485	mg/Kg	₩	09/21/23 16:34	09/27/23 00:25	1
<0.000601	U	0.00213	0.000601	mg/Kg	₽	09/21/23 16:34	09/27/23 00:25	1
<0.00107	U	0.00426	0.00107	mg/Kg	₽	09/21/23 16:34	09/27/23 00:25	1
< 0.000366	U	0.00213	0.000366	mg/Kg	₩	09/21/23 16:34	09/27/23 00:25	1
< 0.00107	U	0.00426	0.00107	mg/Kg	₩	09/21/23 16:34	09/27/23 00:25	1
	Result <0.000410 <0.000485 <0.000601 <0.00107 <0.000366	Result Qualifier	<0.000410 U 0.00213 <0.000485 U 0.00213 <0.000601 U 0.00213 <0.00107 U 0.00426 <0.000366 U 0.00213	Result Qualifier RL MDL <0.000410	Result Qualifier RL MDL Unit <0.000410	Result Qualifier RL MDL Unit D <0.000410	Result Qualifier RL MDL Unit D Prepared <0.000410	Result Qualifier RL MDL Unit D Prepared Analyzed <0.000410

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH9 2-3

Date Collected: 09/19/23 10:14

Date Received: 09/21/23 11:13

Job ID: 880-33484-1

Lab Sample ID: 880-33484-19

Matrix: Solid

Percent Solids: 94.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	09/21/23 16:34	09/27/23 00:25	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/21/23 16:34	09/27/23 00:25	1
_						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.4	J	53.6	16.1	mg/Kg	*	09/21/23 14:39	09/22/23 18:45	1
Diesel Range Organics (Over C10-C28)	1570		53.6	16.1	mg/Kg	₩	09/21/23 14:39	09/22/23 18:45	1
Oll Range Organics (Over C28-C36)	<16.1	U	53.6	16.1	mg/Kg	₩	09/21/23 14:39	09/22/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/21/23 14:39	09/22/23 18:45	1
o-Terphenyl	129		70 - 130				09/21/23 14:39	09/22/23 18:45	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		26.8	2.11	mg/Kg	*		09/26/23 15:25	5

Client Sample ID: BH9 3-4 Lab Sample ID: 880-33484-20

 Date Collected: 09/19/23 10:16
 Matrix: Solid

 Date Received: 09/21/23 11:13
 Percent Solids: 93.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000415	U	0.00216	0.000415	mg/Kg	₩	09/21/23 16:34	09/27/23 00:52	1
Toluene	<0.000491	U	0.00216	0.000491	mg/Kg	₽	09/21/23 16:34	09/27/23 00:52	1
Ethylbenzene	<0.000609	U	0.00216	0.000609	mg/Kg	₽	09/21/23 16:34	09/27/23 00:52	1
m-Xylene & p-Xylene	<0.00109	U	0.00431	0.00109	mg/Kg	₩	09/21/23 16:34	09/27/23 00:52	1
o-Xylene	< 0.000371	U	0.00216	0.000371	mg/Kg	₩	09/21/23 16:34	09/27/23 00:52	1
Xylenes, Total	<0.00109	U	0.00431	0.00109	mg/Kg	₽	09/21/23 16:34	09/27/23 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				09/21/23 16:34	09/27/23 00:52	
1,4-Difluorobenzene (Surr)	89		70 - 130				09/21/23 16:34	09/27/23 00:52	
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.4	J	53.4	16.0	mg/Kg	-	09/21/23 14:39	09/22/23 19:07	
Diesel Range Organics (Over C10-C28)	40.3	J	53.4	16.0	mg/Kg	₽	09/21/23 14:39	09/22/23 19:07	
OII Range Organics (Over C28-C36)	<16.0	U	53.4	16.0	mg/Kg	₽	09/21/23 14:39	09/22/23 19:07	

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	715		5.36	0.423	mg/Kg	<u></u> ⇔		09/26/23 15:31	1

70 - 130

70 - 130

81

103

Eurofins Midland

09/22/23 19:07

09/22/23 19:07

09/21/23 14:39

09/21/23 14:39

1-Chlorooctane

o-Terphenyl

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH10 0-1 Date Collected: 09/19/23 11:07 Date Received: 09/21/23 11:13

1-Chlorooctane

o-Terphenyl

Job ID: 880-33484-1

Percent Solids: 90.3

ab	Sample	ID: 880-33484-21
		Matrix: Solid

09/21/23 14:28

09/21/23 14:28

09/22/23 10:31

09/22/23 10:31

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000424	U	0.00220	0.000424	mg/Kg	-	09/21/23 17:02	09/26/23 23:21	1
Toluene	<0.000502	U	0.00220	0.000502	mg/Kg	₽	09/21/23 17:02	09/26/23 23:21	1
Ethylbenzene	<0.000622	U	0.00220	0.000622	mg/Kg	₽	09/21/23 17:02	09/26/23 23:21	1
m-Xylene & p-Xylene	<0.00111	U	0.00440	0.00111	mg/Kg		09/21/23 17:02	09/26/23 23:21	1
o-Xylene	< 0.000379	U	0.00220	0.000379	mg/Kg	₽	09/21/23 17:02	09/26/23 23:21	1
Xylenes, Total	<0.00111	U	0.00440	0.00111	mg/Kg	₽	09/21/23 17:02	09/26/23 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				09/21/23 17:02	09/26/23 23:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130				09/21/23 17:02	09/26/23 23:21	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.5	U F1	54.9	16.5	mg/Kg	— <u> </u>	09/21/23 14:28	09/22/23 10:31	1
Diesel Range Organics (Over	37.4	J F1	54.9	16.5	mg/Kg	₽	09/21/23 14:28	09/22/23 10:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<16.5	U	54.9	16.5	mg/Kg	₩	09/21/23 14:28	09/22/23 10:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed	Dil Fac

_									
Method: EPA 300.0 - Anions, Ion Cl	hromatograph	y - Soluble							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	589		5.52	0.436	mg/Kg	*		09/26/23 15:36	1

70 - 130

70 - 130

78

72

Lab Sample ID: 880-33484-22 Client Sample ID: BH10 2-3

Date Collected: 09/19/23 11:10 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000402	U	0.00209	0.000402	mg/Kg	*	09/21/23 17:02	09/26/23 23:42	1
Toluene	< 0.000476	U	0.00209	0.000476	mg/Kg	₽	09/21/23 17:02	09/26/23 23:42	1
Ethylbenzene	<0.000590	U	0.00209	0.000590	mg/Kg	₽	09/21/23 17:02	09/26/23 23:42	1
m-Xylene & p-Xylene	<0.00106	U	0.00418	0.00106	mg/Kg	₩	09/21/23 17:02	09/26/23 23:42	1
o-Xylene	0.000515	JB	0.00209	0.000359	mg/Kg	₽	09/21/23 17:02	09/26/23 23:42	1
Xylenes, Total	<0.00106	U	0.00418	0.00106	mg/Kg	₩	09/21/23 17:02	09/26/23 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				09/21/23 17:02	09/26/23 23:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/21/23 17:02	09/26/23 23:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	52.9	15.9	mg/Kg	<u> </u>	09/21/23 14:28	09/22/23 11:42	1	
Diesel Range Organics (Over C10-C28)	24.0	J	52.9	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 11:42	1	
OII Range Organics (Over C28-C36)	<15.9	U	52.9	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 11:42	1	

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH10 2-3

Chloride

Date Collected: 09/19/23 11:10
Date Received: 09/21/23 11:13

329

Lab Sample ID: 880-33484-22 Matrix: Solid

09/26/23 15:42

Percent Solids: 95.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	09/21/23 14:20	3 09/22/23 11:42	1
o-Terphenyl	72		70 - 130	09/21/23 14:20	3 09/22/23 11:42	1

o-Terphenyl 72 70 - 130 09/21/23 14:28 09/22/23 11:42 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Client Sample ID: BH11 0-1 Lab Sample ID: 880-33484-23

5.19

0.410 mg/Kg

 Date Collected: 09/19/23 11:19
 Matrix: Solid

 Date Received: 09/21/23 11:13
 Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000407	U	0.00212	0.000407	mg/Kg	*	09/21/23 17:02	09/27/23 00:02	1
Toluene	<0.000483	U	0.00212	0.000483	mg/Kg	₩	09/21/23 17:02	09/27/23 00:02	1
Ethylbenzene	<0.000598	U	0.00212	0.000598	mg/Kg	₽	09/21/23 17:02	09/27/23 00:02	1
m-Xylene & p-Xylene	<0.00107	U	0.00423	0.00107	mg/Kg	₽	09/21/23 17:02	09/27/23 00:02	1
o-Xylene	< 0.000364	U	0.00212	0.000364	mg/Kg	₽	09/21/23 17:02	09/27/23 00:02	1
Xylenes, Total	<0.00107	U	0.00423	0.00107	mg/Kg	₽	09/21/23 17:02	09/27/23 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/21/23 17:02	09/27/23 00:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/21/23 17:02	09/27/23 00:02	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	53.0	15.9	mg/Kg	*	09/21/23 14:28	09/22/23 12:05	1
Diesel Range Organics (Over C10-C28)	25.4	J	53.0	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 12:05	1
OII Range Organics (Over C28-C36)	<15.9	U	53.0	15.9	mg/Kg	₩	09/21/23 14:28	09/22/23 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				09/21/23 14:28	09/22/23 12:05	1
o-Terphenyl	70		70 - 130				09/21/23 14:28	09/22/23 12:05	1

Method: EPA 300.0 - Anions, Ion C	hromatography - S	oluble						
Analyte	Result Qualific	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010	26.3	2.08	mg/Kg	₩		09/26/23 01:43	5

 Client Sample ID: BH11 1-2
 Lab Sample ID: 880-33484-24

 Date Collected: 09/19/23 11:21
 Matrix: Solid

 Date Received: 09/21/23 11:13
 Percent Solids: 95.3

ethod: SW846 8021B - Volatile Organic Compounds (GC)										
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
<0.000402	U	0.00209	0.000402	mg/Kg	₽	09/21/23 17:02	09/27/23 00:23	1		
<0.000477	U	0.00209	0.000477	mg/Kg	₽	09/21/23 17:02	09/27/23 00:23	1		
< 0.000590	U	0.00209	0.000590	mg/Kg	₽	09/21/23 17:02	09/27/23 00:23	1		
<0.00106	U	0.00418	0.00106	mg/Kg	₽	09/21/23 17:02	09/27/23 00:23	1		
< 0.000359	U	0.00209	0.000359	mg/Kg	₩	09/21/23 17:02	09/27/23 00:23	1		
<0.00106	U	0.00418	0.00106	mg/Kg	₩	09/21/23 17:02	09/27/23 00:23	1		
	Result <0.000402 <0.000477 <0.000590 <0.00106 <0.000359	Result Qualifier Compounds (GC) Result Qualifier Co.000402 U Co.000590 U Co.00106 U Co.000359 U Co.00106 U Co	Result Qualifier RL <0.000402	Result Qualifier RL MDL <0.000402	Result Qualifier RL MDL Unit <0.000402	Result Qualifier RL MDL Unit D <0.000402	Result Qualifier RL MDL Unit D Prepared <0.000402	Result Qualifier RL MDL Unit D Prepared Analyzed <0.000402		

Eurofins Midland

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12

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH11 1-2 Lab Sample ID: 880-33484-24 Date Collected: 09/19/23 11:21

Matrix: Solid

Date Received: 09/21/23 11:13 Percent Solids: 95.3

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/21/23 17:02	09/27/23 00:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/21/23 17:02	09/27/23 00:23	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	52.1	15.6	mg/Kg	*	09/21/23 14:28	09/22/23 12:27	1
Diesel Range Organics (Over C10-C28)	18.7	J	52.1	15.6	mg/Kg	₽	09/21/23 14:28	09/22/23 12:27	1
Oll Range Organics (Over C28-C36)	<15.6	U	52.1	15.6	mg/Kg	₽	09/21/23 14:28	09/22/23 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/21/23 14:28	09/22/23 12:27	1
o-Terphenyl	73		70 - 130				09/21/23 14:28	09/22/23 12:27	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.27	0.416	ma/Ka	— <u></u>		09/26/23 01:49	

Client Sample ID: BH12 2-3 Lab Sample ID: 880-33484-25

Date Collected: 09/19/23 11:34 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000410	U	0.00213	0.000410	mg/Kg	₩	09/21/23 17:02	09/27/23 00:43	
Toluene	<0.000485	U	0.00213	0.000485	mg/Kg	₽	09/21/23 17:02	09/27/23 00:43	
Ethylbenzene	<0.000601	U	0.00213	0.000601	mg/Kg	₽	09/21/23 17:02	09/27/23 00:43	
m-Xylene & p-Xylene	<0.00107	U	0.00425	0.00107	mg/Kg	₽	09/21/23 17:02	09/27/23 00:43	
o-Xylene	< 0.000366	U	0.00213	0.000366	mg/Kg	₩	09/21/23 17:02	09/27/23 00:43	
Xylenes, Total	<0.00107	U	0.00425	0.00107	mg/Kg	₩	09/21/23 17:02	09/27/23 00:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				09/21/23 17:02	09/27/23 00:43	
1,4-Difluorobenzene (Surr)	111		70 - 130				09/21/23 17:02	09/27/23 00:43	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL .	MDL		<u>D</u>	Prepared 00/04/02 44-02	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	• •	MDL 16.0	Unit mg/Kg	D	Prepared 09/21/23 14:28	Analyzed 09/22/23 12:50	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <16.0	Qualifier U	RL 53.3	16.0	mg/Kg	*	09/21/23 14:28	09/22/23 12:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL .		mg/Kg		<u> </u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <16.0	Qualifier U J	RL 53.3	16.0 16.0	mg/Kg	*	09/21/23 14:28	09/22/23 12:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <16.0	Qualifier U J	FL 53.3 53.3	16.0 16.0	mg/Kg	— —	09/21/23 14:28 09/21/23 14:28	09/22/23 12:50 09/22/23 12:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <16.0 28.1 <16.0	Qualifier U J	RL 53.3 53.3	16.0 16.0	mg/Kg	— —	09/21/23 14:28 09/21/23 14:28 09/21/23 14:28	09/22/23 12:50 09/22/23 12:50 09/22/23 12:50	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <16.0 28.1 <16.0 %Recovery	Qualifier U J	RL 53.3 53.3 53.3 <i>Limits</i>	16.0 16.0	mg/Kg	— —	09/21/23 14:28 09/21/23 14:28 09/21/23 14:28 Prepared	09/22/23 12:50 09/22/23 12:50 09/22/23 12:50 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U J U Qualifier	RL 53.3 53.3 53.3 Limits 70 - 130 70 - 130	16.0 16.0	mg/Kg	— —	09/21/23 14:28 09/21/23 14:28 09/21/23 14:28 Prepared 09/21/23 14:28	09/22/23 12:50 09/22/23 12:50 09/22/23 12:50 Analyzed 09/22/23 12:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U J U Qualifier	RL 53.3 53.3 53.3 Limits 70 - 130 70 - 130	16.0 16.0	mg/Kg mg/Kg mg/Kg	— —	09/21/23 14:28 09/21/23 14:28 09/21/23 14:28 Prepared 09/21/23 14:28	09/22/23 12:50 09/22/23 12:50 09/22/23 12:50 Analyzed 09/22/23 12:50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH12 3-4

Date Collected: 09/19/23 11:37

Date Received: 09/21/23 11:13

Job ID: 880-33484-1

Lab Sample ID: 880-33484-26

Matrix: Solid

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000404	U	0.00210	0.000404	mg/Kg	<u></u>	09/21/23 17:02	09/27/23 01:04	
Toluene	0.000599	J	0.00210	0.000478	mg/Kg	₽	09/21/23 17:02	09/27/23 01:04	•
Ethylbenzene	<0.000592	U	0.00210	0.000592	mg/Kg	₽	09/21/23 17:02	09/27/23 01:04	•
m-Xylene & p-Xylene	<0.00106	U	0.00419	0.00106	mg/Kg	₽	09/21/23 17:02	09/27/23 01:04	
o-Xylene	0.000374	JB	0.00210	0.000361	mg/Kg	₽	09/21/23 17:02	09/27/23 01:04	•
Xylenes, Total	<0.00106	U	0.00419	0.00106	mg/Kg	₩	09/21/23 17:02	09/27/23 01:04	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				09/21/23 17:02	09/27/23 01:04	
1,4-Difluorobenzene (Surr)	109		70 - 130				09/21/23 17:02	09/27/23 01:04	

Prepared	Analyzed	
Prepared	Analyzed	
	y 20 u	Dil Fac
9/21/23 14:28	09/22/23 13:14	1
9/21/23 14:28	09/22/23 13:14	1
9/21/23 14:28	09/22/23 13:14	1
Prepared	Analyzed	Dil Fac
9/21/23 14:28	09/22/23 13:14	1
9/21/23 14:28	09/22/23 13:14	1
15	9/21/23 14:28 9/21/23 14:28 Prepared 9/21/23 14:28	9/21/23 14:28 09/22/23 13:14 9/21/23 14:28 09/22/23 13:14 Prepared Analyzed 9/21/23 14:28 09/22/23 13:14

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	578		5.25	0.415	mg/Kg			09/26/23 16:14	1

Client Sample ID: BH13 0-1 Lab Sample ID: 880-33484-27 Date Collected: 09/19/23 11:50 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 94.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000409	U	0.00213	0.000409	mg/Kg	≎	09/21/23 17:02	09/27/23 01:24	1
Toluene	<0.000485	U	0.00213	0.000485	mg/Kg	₽	09/21/23 17:02	09/27/23 01:24	1
Ethylbenzene	<0.000601	U	0.00213	0.000601	mg/Kg	₽	09/21/23 17:02	09/27/23 01:24	1
m-Xylene & p-Xylene	<0.00107	U	0.00425	0.00107	mg/Kg	₽	09/21/23 17:02	09/27/23 01:24	1
o-Xylene	0.000620	JB	0.00213	0.000366	mg/Kg	₽	09/21/23 17:02	09/27/23 01:24	1
Xylenes, Total	<0.00107	U	0.00425	0.00107	mg/Kg	₩	09/21/23 17:02	09/27/23 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/21/23 17:02	09/27/23 01:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/21/23 17:02	09/27/23 01:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	53.2	15.9	mg/Kg	<u></u>	09/21/23 14:28	09/22/23 13:38	1	
Diesel Range Organics (Over C10-C28)	61.9		53.2	15.9	mg/Kg	₩	09/21/23 14:28	09/22/23 13:38	1	
Oll Range Organics (Over C28-C36)	<15.9	U	53.2	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 13:38	1	

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Date Received: 09/21/23 11:13

Job ID: 880-33484-1

ab Sample ID: 880-33484-27

Matrix: Solid

Percent Solids: 94.6

Client Sample ID: BH13 0-1	Lab Sample ID:
Date Collected: 09/19/23 11:50	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	09/21/23 14:28	09/22/23 13:38	1
o-Terphenyl	73		70 - 130	09/21/23 14:28	09/22/23 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2050	26.2	2.07	mg/Kg	<u></u>		09/26/23 16:21	5

Client Sample ID: BH13 1-2 Lab Sample ID: 880-33484-28

 Date Collected: 09/19/23 11:55
 Matrix: Solid

 Date Received: 09/21/23 11:13
 Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000407	U	0.00211	0.000407	mg/Kg	₽	09/21/23 17:02	09/27/23 01:45	1
Toluene	0.000500	J	0.00211	0.000482	mg/Kg	₽	09/21/23 17:02	09/27/23 01:45	1
Ethylbenzene	<0.000597	U	0.00211	0.000597	mg/Kg	₽	09/21/23 17:02	09/27/23 01:45	1
m-Xylene & p-Xylene	<0.00107	U	0.00423	0.00107	mg/Kg	₽	09/21/23 17:02	09/27/23 01:45	1
o-Xylene	< 0.000364	U	0.00211	0.000364	mg/Kg	₽	09/21/23 17:02	09/27/23 01:45	1
Xylenes, Total	<0.00107	U	0.00423	0.00107	mg/Kg	₩	09/21/23 17:02	09/27/23 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				09/21/23 17:02	09/27/23 01:45	1
1,4-Difluorobenzene (Surr)	102		70 ₋ 130				09/21/23 17:02	09/27/23 01:45	1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	53.1	15.9	mg/Kg	*	09/21/23 14:28	09/22/23 14:02	1
Diesel Range Organics (Over C10-C28)	23.5	J	53.1	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 14:02	1
Oll Range Organics (Over C28-C36)	<15.9	U	53.1	15.9	mg/Kg	₽	09/21/23 14:28	09/22/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/21/23 14:28	09/22/23 14:02	1
o-Terphenyl	73		70 - 130				09/21/23 14:28	09/22/23 14:02	1

Method: EPA 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070	5.23	0.413	mg/Kg	<u> </u>		09/26/23 16:28	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-33484-1	BH1 0-1	108	90	
)-33484-1 MS	BH1 0-1	127	97	
-33484-1 MSD	BH1 0-1	112	74	
)-33484-2	BH2 2-3	138 S1+	114	
)-33484-3	BH2 3-4	154 S1+	99	
)-33484-4	BH3 0-1	124	92	
0-33484-5	BH3 2-3	126	90	
0-33484-6	BH3 3-4	145 S1+	101	
)-33484-7	BH3 4-5	121	57 S1-	
0-33484-8	BH4 1-2	138 S1+	98	
0-33484-9	BH4 2-3	98	89	
-33484-10	BH5 0-1	145 S1+	86	
)-33484-11	BH5 3-4	121	88	
)-33484-12	BH6 1-2	148 S1+	102	
0-33484-13	BH6 2-3	130	97	
-33484-14	BH6 3-4	140 S1+	91	
-33484-15	BH7 3-4	128	73	
-33484-16	BH7 4-5	128	93	
-33484-17	BH8 2-3	129	74	
-33484-18	BH8 3-4	134 S1+	95	
-33484-19	BH9 2-3	133 S1+	88	
-33484-20	BH9 3-4	141 S1+	89	
-33484-21	BH10 0-1	88	98	
33484-21 MS	BH10 0-1	97	103	
33484-21 MSD	BH10 0-1	104	98	
33484-22	BH10 2-3	98	102	
-33484-23	BH11 0-1	108	102	
1-33464-24	BH11 1-2	97	101	
-33484-25	BH12 2-3	100	104	
-33484-26	BH12 3-4	98	109	
D-33484-27	BH13 0-1	109	109	
0-33484-27 0-33484-28	BH13 0-1 BH13 1-2	109	107	
0-33464-26 S 880-63018/1-A				
S 880-63018/1-A S 880-63020/1-A	Lab Control Sample	109	98	
SD 880-63020/1-A SD 880-63018/2-A	Lab Control Sample	108 100	98 81	
	Lab Control Sample Dup			
SD 880-63020/2-A	Lab Control Sample Dup	107	97	
880-63018/5-A	Method Blank	69 S1-	79	
880-63020/5-A	Method Blank	117	126	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: SEAWOLD 1 12 Federal #091H

Job ID: 880-33484-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-33484-1	BH1 0-1	74	91	
380-33484-1 MS	BH1 0-1	85	94	
380-33484-1 MSD	BH1 0-1	83	89	
380-33484-2	BH2 2-3	86	109	
880-33484-3	BH2 3-4	79	99	
380-33484-4	BH3 0-1	82	109	
380-33484-5	BH3 2-3	73	92	
380-33484-6	BH3 3-4	73	93	
380-33484-7	BH3 4-5	76	95	
380-33484-8	BH4 1-2	77	95	
380-33484-9	BH4 2-3	76	96	
380-33484-10	BH5 0-1	81	102	
380-33484-11	BH5 3-4	73	95	
380-33484-12	BH6 1-2	75	92	
380-33484-13	BH6 2-3	81	105	
380-33484-14	BH6 3-4	80	101	
380-33484-15	BH7 3-4	72	88	
380-33484-16	BH7 4-5	78	102	
380-33484-17	BH8 2-3	83	107	
380-33484-18	BH8 3-4	86	111	
380-33484-19	BH9 2-3	101	129	
380-33484-20	BH9 3-4	81	103	
380-33484-21	BH10 0-1	78	72	
380-33484-21 MS	BH10 0-1	76	66 S1-	
380-33484-21 MSD	BH10 0-1	75	65 S1-	
380-33484-22	BH10 2-3	78	72	
380-33484-23	BH11 0-1	74	70	
380-33484-24	BH11 1-2	78	73	
380-33484-25	BH12 2-3	80	75	
380-33484-26	BH12 3-4	80	75	
380-33484-27	BH13 0-1	77	73	
380-33484-28	BH13 1-2	78	73	
_CS 880-63004/2-A	Lab Control Sample	146 S1+	146 S1+	
.CS 880-63008/2-A	Lab Control Sample	80	98	
.CSD 880-63004/3-A	Lab Control Sample Dup	106	105	
LCSD 880-63008/3-A	Lab Control Sample Dup	99	123	
MB 880-63004/1-A - IN3	Method Blank	127	132 S1+	
MB 880-63008/1-A	Method Blank	113	151 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63018/5-A

Matrix: Solid

Analysis Batch: 63317

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63018

	МВ	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/21/23 16:34	09/26/23 14:50	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		09/21/23 16:34	09/26/23 14:50	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		09/21/23 16:34	09/26/23 14:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 16:34	09/26/23 14:50	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/21/23 16:34	09/26/23 14:50	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 16:34	09/26/23 14:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	09/21/23 16:	34 09/26/23 14:50
1,4-Difluorobenzene (Surr)	79		70 - 130	09/21/23 16:	34 09/26/23 14:50

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 63018

Prep Type: Total/NA

Prep Batch: 63018

35

Dil Fac

Lab Sample ID: LCS 880-63018/1-A **Matrix: Solid**

Analysis Batch: 63317

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1118 mg/Kg 112 70 - 130 0.1263 Toluene 0.100 mg/Kg 126 70 - 130 0.100 Ethylbenzene 0.1117 mg/Kg 112 70 - 130 70 - 130 0.200 108 m-Xylene & p-Xylene 0.2161 mg/Kg 0.100 o-Xylene 0.1077 mg/Kg 108 70 - 130

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

102

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 63317

Lab Sample ID: LCSD 880-63018/2-A

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 0.1006 mg/Kg 101 70 - 130 11 35 0.100 0.1124 mg/Kg 112 70 - 130 12 35 0.100 0.1015 mg/Kg 102 70 - 130 10 35 0.200 0.2074 mg/Kg 104 70 - 130 4 35

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-33484-1 MS

Matrix: Solid

Analysis Batch: 63317

Client Sample ID: BH1 0-1 Prep Type: Total/NA

Prep Batch: 63018

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000390	U	0.102	0.1183		mg/Kg	<u></u>	116	70 - 130	
Toluene	<0.000462	U F1	0.102	0.1341	F1	mg/Kg	₽	132	70 - 130	

0.100

0.1015

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Job ID: 880-33484-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-33484-1 MS

Lab Sample ID: 880-33484-1 MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 63317

Client Sample ID: BH1 0-1

Prep Type: Total/NA Prep Batch: 63018

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Ethylbenzene <0.000573 U 0.102 0.1215 119 70 - 130 mg/Kg Ü m-Xylene & p-Xylene <0.00102 U 0.203 0.2451 mg/Kg ₽ 120 70 - 130 <0.000349 U 0.102 o-Xylene 0.1120 mg/Kg 110 70 - 130 Ċ.

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Client Sample ID: BH1 0-1

Prep Type: Total/NA

Prep Batch: 63018

RPD Limits RPD Limit

Analysis Batch: 63317 Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier Analyte Unit D 0.101 104 Benzene <0.000390 U 0.1052 mg/Kg ₽ 70 - 130 12 35 Toluene <0.000462 U F1 0.101 0.1123 mg/Kg ₽ 111 70 - 130 18 35 Ethylbenzene <0.000573 U 0.101 0.1032 mg/Kg ₩ 102 70 - 130 16 35 <0.00102 U 0.202 0.2130 106 70 - 130 35 m-Xylene & p-Xylene mq/Kq ₽ 14 0.101 <0.000349 U 0.09943 98 70 - 130 12 o-Xylene mg/Kg Ü

MSD MSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: MB 880-63020/5-A

Matrix: Solid

Analysis Batch: 63282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63020

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/21/23 17:02	09/26/23 22:52	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		09/21/23 17:02	09/26/23 22:52	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		09/21/23 17:02	09/26/23 22:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 17:02	09/26/23 22:52	1
o-Xylene	0.0004957	J	0.00200	0.000344	mg/Kg		09/21/23 17:02	09/26/23 22:52	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 17:02	09/26/23 22:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/21/23 17:02	09/26/23 22:52	1
1,4-Difluorobenzene (Surr)	126		70 - 130	09/21/23 17:02	09/26/23 22:52	1

Lab Sample ID: LCS 880-63020/1-A

Matrix: Solid

Analysis Batch: 63282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63020

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07564		mg/Kg		76	70 - 130	
Toluene	0.100	0.07658		mg/Kg		77	70 - 130	
Ethylbenzene	0.100	0.07573		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1737		mg/Kg		87	70 - 130	

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Job ID: 880-33484-1

Prep Batch: 63020

Prep Type: Total/NA

Prep Batch: 63020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-63020/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 63282** Prep Batch: 63020 Spike LCS LCS

Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.08460 85 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 98

Lab Sample ID: LCSD 880-63020/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 63282

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08419		mg/Kg		84	70 - 130	11	35
Toluene	0.100	0.08114		mg/Kg		81	70 - 130	6	35
Ethylbenzene	0.100	0.08199		mg/Kg		82	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1847		mg/Kg		92	70 - 130	6	35
o-Xylene	0.100	0.08975		mg/Kg		90	70 - 130	6	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Lab Sample ID: 880-33484-21 MS Client Sample ID: BH10 0-1

Matrix: Solid

Analysis Batch: 63282

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.000424	U	0.111	0.1145		mg/Kg		104	70 - 130
Toluene	<0.000502	U	0.111	0.1024		mg/Kg	₽	93	70 - 130
Ethylbenzene	<0.000622	U	0.111	0.08653		mg/Kg	₽	78	70 - 130
m-Xylene & p-Xylene	<0.00111	U	0.221	0.2036		mg/Kg	₽	92	70 - 130
o-Xylene	<0.000379	U	0.111	0.09875		mg/Kg	₽	89	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 97 70 - 130 4-Bromofluorobenzene (Surr) 70 - 130 1,4-Difluorobenzene (Surr) 103

Lab Sample ID: 880-33484-21 MSD Client Sample ID: BH10 0-1

Matrix: Solid

Analysis Batch: 63282									Prep	Batch:	63020
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000424	U	0.110	0.1229		mg/Kg	₩	111	70 - 130	7	35
Toluene	<0.000502	U	0.110	0.1029		mg/Kg	₽	93	70 - 130	0	35
Ethylbenzene	< 0.000622	U	0.110	0.1005		mg/Kg	₽	91	70 - 130	15	35
m-Xylene & p-Xylene	<0.00111	U	0.221	0.2316		mg/Kg	₩	105	70 - 130	13	35
o-Xylene	< 0.000379	U	0.110	0.1118		mg/Kg	₩	101	70 - 130	12	35

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Prep Type: Total/NA

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-33484-21 MSD

Matrix: Solid

Analysis Batch: 63282

Client Sample ID: BH10 0-1

Prep Type: Total/NA

Prep Batch: 63020

MSD MSD %Recovery Qualifier Surrogate

Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63286

Dil Fac

Lab Sample ID: MB 880-63286/5-A

Matrix: Solid

Analysis Batch: 63282

Analyte

Benzene

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
<0.000385	U	0.00200	0.000385	mg/Kg		09/26/23 09:26	09/26/23 11:15
<0.000456	U	0.00200	0.000456	mg/Kg		09/26/23 09:26	09/26/23 11:15
<0.000565	H	0.00200	0.000565	ma/Ka		09/26/23 09:26	09/26/23 11:15

Toluene <0 :15 Ethylbenzene 09/26/23 11:15 m-Xylene & p-Xylene <0.00101 U 0.00400 0.00101 mg/Kg 09/26/23 09:26 09/26/23 11:15 o-Xylene <0.000344 U 0.00200 0.000344 mg/Kg 09/26/23 09:26 09/26/23 11:15 Xylenes, Total <0.00101 U 0.00400 0.00101 mg/Kg 09/26/23 09:26 09/26/23 11:15

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/26/23 09:26	09/26/23 11:15	1
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130	09/26/23 09:26	09/26/23 11:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-63004/2-A

Matrix: Solid

Analysis Batch: 63027

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 63004

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	 1000	877.2		mg/Kg		88	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	908.9		mg/Kg		91	70 - 130
040,000)							

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	146	S1+	70 - 130
o-Terphenyl	146	S1+	70 - 130

Lab Sample ID: LCSD 880-63004/3-A

Matrix: Solid

Analysis Batch: 63027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63004

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	909.1		mg/Kg		91	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	959.9		mg/Kg		96	70 - 130	5	20

C10-C28)

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-33484-21 MS

Matrix: Solid

Analysis Batch: 63027

Client Sample ID: BH10 0-1 Prep Type: Total/NA

Prep Batch: 63004

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<16.5	U F1	1110	777.5		mg/Kg	*	70	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	37.4	J F1	1110	751.2	F1	mg/Kg	₩	64	70 - 130	
C10-C28)						5 0				

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	66	S1-	70 - 130

Client Sample ID: BH10 0-1

Prep Type: Total/NA Prep Batch: 63004

Lab Sample ID: 880-33484-21 MSD

Matrix: Solid

Analysis Batch: 63027

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<16.5	U F1	1110	768.4	F1	mg/Kg	— <u>—</u>	69	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	37.4	JF1	1110	737.6	F1	mg/Kg	₩	63	70 - 130	2	20
C10-C28)											

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 75 70 - 130 o-Terphenyl 65 S1-70 - 130

Lab Sample ID: MB 880-63008/1-A

Matrix: Solid

Analysis Batch: 63029

Client	Sample	ID: Me	thod l	Rlank

Prep Type: Total/NA

Prep Batch: 63008

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:39	09/22/23 07:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:39	09/22/23 07:49	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:39	09/22/23 07:49	1

MB MB Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 70 - 130 09/21/23 14:39 09/22/23 07:49 1-Chlorooctane 113 151 S1+ 70 - 130 09/21/23 14:39 09/22/23 07:49 o-Terphenyl

Ollant Cample ID: Lab Cantual Cample

M

Lab Sample ID: LCS 880-63008/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 63029			Prep Batch: 63008
	Spike	LCS LCS	%Rec

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1009	-	mg/Kg		101	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1146		mg/Kg		115	70 - 130	
C10-C28)								

Job ID: 880-33484-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-63008/2-A

Matrix: Solid

Analysis Batch: 63029

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63008

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 80 70 - 130 o-Terphenyl 98 70 - 130

Lab Sample ID: LCSD 880-63008/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 63029

Prep Type: Total/NA

Prep Batch: 63008

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1120 112 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1091 109 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 99 70 - 130 1-Chlorooctane 123 70 - 130 o-Terphenyl

Lab Sample ID: 880-33484-1 MS

Matrix: Solid

Analysis Batch: 63029

Client Sample ID: BH1 0-1 Prep Type: Total/NA

Prep Batch: 63008

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 24.5 JF1 1020 739.2 mg/Kg ₽ 70 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <15.2 U 1020 966.8 mg/Kg 95 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 85 o-Terphenyl 94 70 - 130

Lab Sample ID: 880-33484-1 MSD Client Sample ID: BH1 0-1

Matrix: Solid

Analysis Batch: 63029

Prep Type: Total/NA Prep Batch: 63008

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics JF1 1020 731.2 F1 69 24.5 mg/Kg ₽ 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <15.2 U 1020 915.3 mg/Kg ø 90 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	89		70 - 130

Dil Fac

Dil Fac

Dil Fac

RPD

Limit

Dil Fac

QC Sample Results

RL

50.0

50.0

50.0

Limits

70 - 130

70 - 130

RL

5.00

Spike

Added

Spike

Added

250

200

250

MDL Unit

mg/Kg

mg/Kg

15.0 mg/Kg

MDL Unit

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

0.395

LCS LCS

LCSD LCSD

Qualifier

MDL Unit

250.6

Result

250.6

195.4

RL

Result Qualifier

15.0

15.0

D

D

D

D

Prepared

09/21/23 14:28

09/21/23 14:28

09/21/23 14:28

Prepared

09/21/23 14:28

09/21/23 14:28

Prepared

%Rec

%Rec

Prepared

98

90 - 110

100

100

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Lab Sample ID: MB 880-63004/1-A

Matrix: Solid

Analyte

IN3

Surrogate

Analysis Batch: 63027

Gasoline Range Organics

OII Range Organics (Over C28-C36) -

Lab Sample ID: MB 880-63036/1-A

Lab Sample ID: LCS 880-63036/2-A

Lab Sample ID: LCSD 880-63036/3-A

Lab Sample ID: MB 880-63037/1-A

Method: 300.0 - Anions, Ion Chromatography

(GRO)-C6-C10 - IN3 Diesel Range Organics (Over

1-Chlorooctane - IN3

o-Terphenyl - IN3

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analysis Batch: 63236

Analysis Batch: 63236

Analysis Batch: 63236

Analysis Batch: 63319

C10-C28) - IN3

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - IN3

MB MB

<15.0 U

<15.0 U

23.48 J

127

%Recovery

MB MB

132 S1+

MB MB Result Qualifier

MB MB

Result Qualifier

<0.395 U

Qualifier

Result Qualifier

Job ID: 880-33484-1

Prep Type: Total/NA

Prep Batch: 63004

Client Sample ID: Method Blank

Analyzed

09/22/23 07:49

09/22/23 07:49

09/22/23 07:49

Analyzed

09/22/23 07:49

09/22/23 07:49

Client Sample ID: Method Blank

Analyzed

09/25/23 22:29

Client Sample ID: Lab Control Sample

%Rec

Limits

Client Sample ID: Lab Control Sample Dup

90 - 110

%Rec

Limits

90 - 110

Client Sample ID: Method Blank

Analyzed

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Prep Type: Soluble

5.00 mg/Kg Chloride <0.395 0.395 09/26/23 11:56 Lab Sample ID: LCS 880-63037/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Analysis Batch: 63319 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-63037/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63319

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 200 194.5 mg/Kg 97 90 - 110 20

Lab Sample ID: 880-33484-9 MS Client Sample ID: BH4 2-3 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63319

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 412 F1 256 639.5 F1 mg/Kg ä 89 90 - 110

Lab Sample ID: 880-33484-9 MSD Client Sample ID: BH4 2-3 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 63319

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 412 F1 256 638.8 F1 mg/Kg 90 - 110

Lab Sample ID: MB 880-63038/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 63344

мв мв

Result Qualifier RL MDL Analyte Unit Prepared Analyzed Dil Fac 5.00 mg/Kg Chloride <0.395 0.395 09/26/23 14:15

Lab Sample ID: LCS 880-63038/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63344

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 239.2 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-63038/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63344

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 239.3 mg/Kg 90 - 110

Lab Sample ID: 880-33484-14 MS Client Sample ID: BH6 3-4 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 63344

MS MS %Rec Sample Sample Spike Result Qualifier hahhΔ Result Qualifier Limits Analyte Unit D %Rec Chloride 131 262 382.2 mg/Kg ₽ 96 90 - 110

Lab Sample ID: 880-33484-14 MSD Client Sample ID: BH6 3-4 **Prep Type: Soluble**

Matrix: Solid

Analysis Patch: 62244

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Alialysis batch, 03344											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	131		262	382 7		ma/Ka		96	90 - 110		20

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

GC VOA

Prep Batch: 63018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-33484-1	BH1 0-1	Total/NA	Solid	5035	
880-33484-2	BH2 2-3	Total/NA	Solid	5035	
880-33484-3	BH2 3-4	Total/NA	Solid	5035	
880-33484-4	BH3 0-1	Total/NA	Solid	5035	
880-33484-5	BH3 2-3	Total/NA	Solid	5035	
880-33484-6	BH3 3-4	Total/NA	Solid	5035	
880-33484-7	BH3 4-5	Total/NA	Solid	5035	
880-33484-8	BH4 1-2	Total/NA	Solid	5035	
880-33484-9	BH4 2-3	Total/NA	Solid	5035	
880-33484-10	BH5 0-1	Total/NA	Solid	5035	
880-33484-11	BH5 3-4	Total/NA	Solid	5035	
880-33484-12	BH6 1-2	Total/NA	Solid	5035	
880-33484-13	BH6 2-3	Total/NA	Solid	5035	
880-33484-14	BH6 3-4	Total/NA	Solid	5035	
880-33484-15	BH7 3-4	Total/NA	Solid	5035	
880-33484-16	BH7 4-5	Total/NA	Solid	5035	
880-33484-17	BH8 2-3	Total/NA	Solid	5035	
880-33484-18	BH8 3-4	Total/NA	Solid	5035	
880-33484-19	BH9 2-3	Total/NA	Solid	5035	
880-33484-20	BH9 3-4	Total/NA	Solid	5035	
MB 880-63018/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63018/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63018/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33484-1 MS	BH1 0-1	Total/NA	Solid	5035	
880-33484-1 MSD	BH1 0-1	Total/NA	Solid	5035	

Prep Batch: 63020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-21	BH10 0-1	Total/NA	Solid	5035	
880-33484-22	BH10 2-3	Total/NA	Solid	5035	
880-33484-23	BH11 0-1	Total/NA	Solid	5035	
880-33484-24	BH11 1-2	Total/NA	Solid	5035	
880-33484-25	BH12 2-3	Total/NA	Solid	5035	
880-33484-26	BH12 3-4	Total/NA	Solid	5035	
880-33484-27	BH13 0-1	Total/NA	Solid	5035	
880-33484-28	BH13 1-2	Total/NA	Solid	5035	
MB 880-63020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33484-21 MS	BH10 0-1	Total/NA	Solid	5035	
880-33484-21 MSD	BH10 0-1	Total/NA	Solid	5035	

Analysis Batch: 63282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-21	BH10 0-1	Total/NA	Solid	8021B	63020
880-33484-22	BH10 2-3	Total/NA	Solid	8021B	63020
880-33484-23	BH11 0-1	Total/NA	Solid	8021B	63020
880-33484-24	BH11 1-2	Total/NA	Solid	8021B	63020
880-33484-25	BH12 2-3	Total/NA	Solid	8021B	63020
880-33484-26	BH12 3-4	Total/NA	Solid	8021B	63020
880-33484-27	BH13 0-1	Total/NA	Solid	8021B	63020

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

GC VOA (Continued)

Analysis Batch: 63282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-28	BH13 1-2	Total/NA	Solid	8021B	63020
MB 880-63020/5-A	Method Blank	Total/NA	Solid	8021B	63020
MB 880-63286/5-A	Method Blank	Total/NA	Solid	8021B	63286
LCS 880-63020/1-A	Lab Control Sample	Total/NA	Solid	8021B	63020
LCSD 880-63020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63020
880-33484-21 MS	BH10 0-1	Total/NA	Solid	8021B	63020
880-33484-21 MSD	BH10 0-1	Total/NA	Solid	8021B	63020

Prep Batch: 63286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 63317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-1	BH1 0-1	Total/NA	Solid	8021B	63018
880-33484-2	BH2 2-3	Total/NA	Solid	8021B	63018
880-33484-3	BH2 3-4	Total/NA	Solid	8021B	63018
880-33484-4	BH3 0-1	Total/NA	Solid	8021B	63018
880-33484-5	BH3 2-3	Total/NA	Solid	8021B	63018
880-33484-6	BH3 3-4	Total/NA	Solid	8021B	63018
880-33484-7	BH3 4-5	Total/NA	Solid	8021B	63018
880-33484-8	BH4 1-2	Total/NA	Solid	8021B	63018
880-33484-9	BH4 2-3	Total/NA	Solid	8021B	63018
880-33484-10	BH5 0-1	Total/NA	Solid	8021B	63018
880-33484-11	BH5 3-4	Total/NA	Solid	8021B	63018
880-33484-12	BH6 1-2	Total/NA	Solid	8021B	63018
880-33484-13	BH6 2-3	Total/NA	Solid	8021B	63018
880-33484-14	BH6 3-4	Total/NA	Solid	8021B	63018
880-33484-15	BH7 3-4	Total/NA	Solid	8021B	63018
880-33484-16	BH7 4-5	Total/NA	Solid	8021B	63018
880-33484-17	BH8 2-3	Total/NA	Solid	8021B	63018
880-33484-18	BH8 3-4	Total/NA	Solid	8021B	63018
880-33484-19	BH9 2-3	Total/NA	Solid	8021B	63018
880-33484-20	BH9 3-4	Total/NA	Solid	8021B	63018
MB 880-63018/5-A	Method Blank	Total/NA	Solid	8021B	63018
LCS 880-63018/1-A	Lab Control Sample	Total/NA	Solid	8021B	63018
LCSD 880-63018/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63018
880-33484-1 MS	BH1 0-1	Total/NA	Solid	8021B	63018
880-33484-1 MSD	BH1 0-1	Total/NA	Solid	8021B	63018

GC Semi VOA

Prep Batch: 63004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-21	BH10 0-1	Total/NA	Solid	8015NM Prep	
880-33484-22	BH10 2-3	Total/NA	Solid	8015NM Prep	
880-33484-23	BH11 0-1	Total/NA	Solid	8015NM Prep	
880-33484-24	BH11 1-2	Total/NA	Solid	8015NM Prep	
880-33484-25	BH12 2-3	Total/NA	Solid	8015NM Prep	
880-33484-26	BH12 3-4	Total/NA	Solid	8015NM Prep	
880-33484-27	BH13 0-1	Total/NA	Solid	8015NM Prep	

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GC Semi VOA (Continued)

Prep Batch: 63004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-28	BH13 1-2	Total/NA	Solid	8015NM Prep	
MB 880-63004/1-A - IN3	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63004/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33484-21 MS	BH10 0-1	Total/NA	Solid	8015NM Prep	
880-33484-21 MSD	BH10 0-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 63008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-1	BH1 0-1	Total/NA	Solid	8015NM Prep	
880-33484-2	BH2 2-3	Total/NA	Solid	8015NM Prep	
880-33484-3	BH2 3-4	Total/NA	Solid	8015NM Prep	
880-33484-4	BH3 0-1	Total/NA	Solid	8015NM Prep	
880-33484-5	BH3 2-3	Total/NA	Solid	8015NM Prep	
880-33484-6	BH3 3-4	Total/NA	Solid	8015NM Prep	
880-33484-7	BH3 4-5	Total/NA	Solid	8015NM Prep	
880-33484-8	BH4 1-2	Total/NA	Solid	8015NM Prep	
880-33484-9	BH4 2-3	Total/NA	Solid	8015NM Prep	
880-33484-10	BH5 0-1	Total/NA	Solid	8015NM Prep	
880-33484-11	BH5 3-4	Total/NA	Solid	8015NM Prep	
880-33484-12	BH6 1-2	Total/NA	Solid	8015NM Prep	
880-33484-13	BH6 2-3	Total/NA	Solid	8015NM Prep	
880-33484-14	BH6 3-4	Total/NA	Solid	8015NM Prep	
880-33484-15	BH7 3-4	Total/NA	Solid	8015NM Prep	
880-33484-16	BH7 4-5	Total/NA	Solid	8015NM Prep	
880-33484-17	BH8 2-3	Total/NA	Solid	8015NM Prep	
880-33484-18	BH8 3-4	Total/NA	Solid	8015NM Prep	
880-33484-19	BH9 2-3	Total/NA	Solid	8015NM Prep	
880-33484-20	BH9 3-4	Total/NA	Solid	8015NM Prep	
MB 880-63008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33484-1 MS	BH1 0-1	Total/NA	Solid	8015NM Prep	
880-33484-1 MSD	BH1 0-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-21	BH10 0-1	Total/NA	Solid	8015B NM	63004
880-33484-22	BH10 2-3	Total/NA	Solid	8015B NM	63004
880-33484-23	BH11 0-1	Total/NA	Solid	8015B NM	63004
880-33484-24	BH11 1-2	Total/NA	Solid	8015B NM	63004
880-33484-25	BH12 2-3	Total/NA	Solid	8015B NM	63004
880-33484-26	BH12 3-4	Total/NA	Solid	8015B NM	63004
880-33484-27	BH13 0-1	Total/NA	Solid	8015B NM	63004
880-33484-28	BH13 1-2	Total/NA	Solid	8015B NM	63004
MB 880-63004/1-A - IN3	Method Blank	Total/NA	Solid	8015B NM	63004
LCS 880-63004/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63004
LCSD 880-63004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63004
880-33484-21 MS	BH10 0-1	Total/NA	Solid	8015B NM	63004
880-33484-21 MSD	BH10 0-1	Total/NA	Solid	8015B NM	63004

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

GC Semi VOA

Analysis Batch: 63029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-1	BH1 0-1	Total/NA	Solid	8015B NM	63008
880-33484-2	BH2 2-3	Total/NA	Solid	8015B NM	63008
880-33484-3	BH2 3-4	Total/NA	Solid	8015B NM	63008
880-33484-4	BH3 0-1	Total/NA	Solid	8015B NM	63008
880-33484-5	BH3 2-3	Total/NA	Solid	8015B NM	63008
880-33484-6	BH3 3-4	Total/NA	Solid	8015B NM	63008
880-33484-7	BH3 4-5	Total/NA	Solid	8015B NM	63008
880-33484-8	BH4 1-2	Total/NA	Solid	8015B NM	63008
880-33484-9	BH4 2-3	Total/NA	Solid	8015B NM	63008
880-33484-10	BH5 0-1	Total/NA	Solid	8015B NM	63008
880-33484-11	BH5 3-4	Total/NA	Solid	8015B NM	63008
880-33484-12	BH6 1-2	Total/NA	Solid	8015B NM	63008
880-33484-13	BH6 2-3	Total/NA	Solid	8015B NM	63008
880-33484-14	BH6 3-4	Total/NA	Solid	8015B NM	63008
880-33484-15	BH7 3-4	Total/NA	Solid	8015B NM	63008
880-33484-16	BH7 4-5	Total/NA	Solid	8015B NM	63008
880-33484-17	BH8 2-3	Total/NA	Solid	8015B NM	63008
880-33484-18	BH8 3-4	Total/NA	Solid	8015B NM	63008
880-33484-19	BH9 2-3	Total/NA	Solid	8015B NM	63008
880-33484-20	BH9 3-4	Total/NA	Solid	8015B NM	63008
MB 880-63008/1-A	Method Blank	Total/NA	Solid	8015B NM	63008
LCS 880-63008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63008
LCSD 880-63008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63008
880-33484-1 MS	BH1 0-1	Total/NA	Solid	8015B NM	63008
880-33484-1 MSD	BH1 0-1	Total/NA	Solid	8015B NM	63008

HPLC/IC

Leach Batch: 63036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-23	BH11 0-1	Soluble	Solid	DI Leach	
880-33484-24	BH11 1-2	Soluble	Solid	DI Leach	
MB 880-63036/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63036/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63036/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 63037

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-33484-1	BH1 0-1	Soluble	Solid	DI Leach	_
880-33484-2	BH2 2-3	Soluble	Solid	DI Leach	
880-33484-3	BH2 3-4	Soluble	Solid	DI Leach	
880-33484-4	BH3 0-1	Soluble	Solid	DI Leach	
880-33484-5	BH3 2-3	Soluble	Solid	DI Leach	
880-33484-6	BH3 3-4	Soluble	Solid	DI Leach	
880-33484-7	BH3 4-5	Soluble	Solid	DI Leach	
880-33484-8	BH4 1-2	Soluble	Solid	DI Leach	
880-33484-9	BH4 2-3	Soluble	Solid	DI Leach	
880-33484-10	BH5 0-1	Soluble	Solid	DI Leach	
880-33484-11	BH5 3-4	Soluble	Solid	DI Leach	
880-33484-12	BH6 1-2	Soluble	Solid	DI Leach	
880-33484-13	BH6 2-3	Soluble	Solid	DI Leach	

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

HPLC/IC (Continued)

Leach Batch: 63037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-25	BH12 2-3	Soluble	Solid	DI Leach	
880-33484-26	BH12 3-4	Soluble	Solid	DI Leach	
880-33484-27	BH13 0-1	Soluble	Solid	DI Leach	
880-33484-28	BH13 1-2	Soluble	Solid	DI Leach	
MB 880-63037/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63037/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63037/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33484-9 MS	BH4 2-3	Soluble	Solid	DI Leach	
880-33484-9 MSD	BH4 2-3	Soluble	Solid	DI Leach	

Leach Batch: 63038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-14	BH6 3-4	Soluble	Solid	DI Leach	_
880-33484-15	BH7 3-4	Soluble	Solid	DI Leach	
880-33484-16	BH7 4-5	Soluble	Solid	DI Leach	
880-33484-17	BH8 2-3	Soluble	Solid	DI Leach	
880-33484-18	BH8 3-4	Soluble	Solid	DI Leach	
880-33484-19	BH9 2-3	Soluble	Solid	DI Leach	
880-33484-20	BH9 3-4	Soluble	Solid	DI Leach	
880-33484-21	BH10 0-1	Soluble	Solid	DI Leach	
880-33484-22	BH10 2-3	Soluble	Solid	DI Leach	
MB 880-63038/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63038/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63038/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33484-14 MS	BH6 3-4	Soluble	Solid	DI Leach	
880-33484-14 MSD	BH6 3-4	Soluble	Solid	DI Leach	

Analysis Batch: 63236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-23	BH11 0-1	Soluble	Solid	300.0	63036
880-33484-24	BH11 1-2	Soluble	Solid	300.0	63036
MB 880-63036/1-A	Method Blank	Soluble	Solid	300.0	63036
LCS 880-63036/2-A	Lab Control Sample	Soluble	Solid	300.0	63036
LCSD 880-63036/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63036

Analysis Batch: 63319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-1	BH1 0-1	Soluble	Solid	300.0	63037
880-33484-2	BH2 2-3	Soluble	Solid	300.0	63037
880-33484-3	BH2 3-4	Soluble	Solid	300.0	63037
880-33484-4	BH3 0-1	Soluble	Solid	300.0	63037
880-33484-5	BH3 2-3	Soluble	Solid	300.0	63037
880-33484-6	BH3 3-4	Soluble	Solid	300.0	63037
880-33484-7	BH3 4-5	Soluble	Solid	300.0	63037
880-33484-8	BH4 1-2	Soluble	Solid	300.0	63037
880-33484-9	BH4 2-3	Soluble	Solid	300.0	63037
880-33484-10	BH5 0-1	Soluble	Solid	300.0	63037
880-33484-11	BH5 3-4	Soluble	Solid	300.0	63037
880-33484-12	BH6 1-2	Soluble	Solid	300.0	63037
880-33484-13	BH6 2-3	Soluble	Solid	300.0	63037
880-33484-25	BH12 2-3	Soluble	Solid	300.0	63037

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

HPLC/IC (Continued)

Analysis Batch: 63319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-26	BH12 3-4	Soluble	Solid	300.0	63037
880-33484-27	BH13 0-1	Soluble	Solid	300.0	63037
880-33484-28	BH13 1-2	Soluble	Solid	300.0	63037
MB 880-63037/1-A	Method Blank	Soluble	Solid	300.0	63037
LCS 880-63037/2-A	Lab Control Sample	Soluble	Solid	300.0	63037
LCSD 880-63037/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63037
880-33484-9 MS	BH4 2-3	Soluble	Solid	300.0	63037
880-33484-9 MSD	BH4 2-3	Soluble	Solid	300.0	63037

Analysis Batch: 63344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-14	BH6 3-4	Soluble	Solid	300.0	63038
880-33484-15	BH7 3-4	Soluble	Solid	300.0	63038
880-33484-16	BH7 4-5	Soluble	Solid	300.0	63038
880-33484-17	BH8 2-3	Soluble	Solid	300.0	63038
880-33484-18	BH8 3-4	Soluble	Solid	300.0	63038
880-33484-19	BH9 2-3	Soluble	Solid	300.0	63038
880-33484-20	BH9 3-4	Soluble	Solid	300.0	63038
880-33484-21	BH10 0-1	Soluble	Solid	300.0	63038
880-33484-22	BH10 2-3	Soluble	Solid	300.0	63038
MB 880-63038/1-A	Method Blank	Soluble	Solid	300.0	63038
LCS 880-63038/2-A	Lab Control Sample	Soluble	Solid	300.0	63038
LCSD 880-63038/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63038
880-33484-14 MS	BH6 3-4	Soluble	Solid	300.0	63038
880-33484-14 MSD	BH6 3-4	Soluble	Solid	300.0	63038

General Chemistry

Analysis Batch: 63045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-33484-1	BH1 0-1	Total/NA	Solid	D2216	
880-33484-2	BH2 2-3	Total/NA	Solid	D2216	
880-33484-3	BH2 3-4	Total/NA	Solid	D2216	
380-33484-4	BH3 0-1	Total/NA	Solid	D2216	
380-33484-5	BH3 2-3	Total/NA	Solid	D2216	
380-33484-6	BH3 3-4	Total/NA	Solid	D2216	
380-33484-7	BH3 4-5	Total/NA	Solid	D2216	
380-33484-8	BH4 1-2	Total/NA	Solid	D2216	
880-33484-9	BH4 2-3	Total/NA	Solid	D2216	
880-33484-10	BH5 0-1	Total/NA	Solid	D2216	
380-33484-11	BH5 3-4	Total/NA	Solid	D2216	
380-33484-12	BH6 1-2	Total/NA	Solid	D2216	
880-33484-13	BH6 2-3	Total/NA	Solid	D2216	
380-33484-14	BH6 3-4	Total/NA	Solid	D2216	
880-33484-15	BH7 3-4	Total/NA	Solid	D2216	
380-33484-16	BH7 4-5	Total/NA	Solid	D2216	
380-33484-17	BH8 2-3	Total/NA	Solid	D2216	
880-33484-18	BH8 3-4	Total/NA	Solid	D2216	
880-33484-19	BH9 2-3	Total/NA	Solid	D2216	
880-33484-20	BH9 3-4	Total/NA	Solid	D2216	
MB 880-63045/1	Method Blank	Total/NA	Solid	D2216	

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Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

General Chemistry (Continued)

Analysis Batch: 63045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-1 DU	BH1 0-1	Total/NA	Solid	D2216	
880-33484-11 DU	BH5 3-4	Total/NA	Solid	D2216	

Analysis Batch: 63048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33484-21	BH10 0-1	Total/NA	Solid	D2216	
880-33484-22	BH10 2-3	Total/NA	Solid	D2216	
880-33484-23	BH11 0-1	Total/NA	Solid	D2216	
880-33484-24	BH11 1-2	Total/NA	Solid	D2216	
880-33484-25	BH12 2-3	Total/NA	Solid	D2216	
880-33484-26	BH12 3-4	Total/NA	Solid	D2216	
880-33484-27	BH13 0-1	Total/NA	Solid	D2216	
880-33484-28	BH13 1-2	Total/NA	Solid	D2216	
MB 880-63048/1	Method Blank	Total/NA	Solid	D2216	
880-33484-21 DU	BH10 0-1	Total/NA	Solid	D2216	

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Lab Sample ID: 880-33484-1

Matrix: Solid

Client Sample ID: BH1 0-1 Date Collected: 09/18/23 15:58

Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Total/NA Analysis D2216 1 63045 09/22/23 10:17 SMC EET MID

Client Sample ID: BH1 0-1 Lab Sample ID: 880-33484-1

Date Collected: 09/18/23 15:58

Matrix: Solid

Date Received: 09/21/23 11:13

Percent Solids: 98.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 15:16	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 10:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 14:01	CH	EET MID

Client Sample ID: BH2 2-3 Lab Sample ID: 880-33484-2

Date Collected: 09/19/23 07:57

Matrix: Solid

Date Received: 09/21/23 11:13

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH2 2-3

Date Collected: 09/19/23 07:57

Lab Sample ID: 880-33484-2

Matrix: Solid

Date Received: 09/21/23 11:13 Percent Solids: 95.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 15:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 14:08	CH	EET MID

Client Sample ID: BH2 3-4

Date Collected: 09/19/23 08:00

Lab Sample ID: 880-33484-3

Matrix: Solid

Date Received: 09/21/23 11:13

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Job ID: 880-33484-1

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH2 3-4 Lab Sample ID: 880-33484-3

Matrix: Solid Percent Solids: 95.5

Lab Sample ID: 880-33484-4

Matrix: Solid

Date Collected: 09/19/23 08:00 Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 16:08	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 12:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 14:14	CH	EET MID

Client Sample ID: BH3 0-1

Date Collected: 09/19/23 08:11 Date Received: 09/21/23 11:13

_											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D2216					63045	09/22/23 10:17	SMC	FET MID	_

Lab Sample ID: 880-33484-4 Client Sample ID: BH3 0-1 Date Collected: 09/19/23 08:11 **Matrix: Solid**

Date Received: 09/21/23 11:13 Percent Solids: 85.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 16:34	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 12:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		5			63319	09/26/23 14:34	CH	EET MID

Client Sample ID: BH3 2-3 Lab Sample ID: 880-33484-5

Date Collected: 09/19/23 08:13 Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216					63045	09/22/23 10:17	SMC	EET MID

Lab Sample ID: 880-33484-5 Client Sample ID: BH3 2-3

Date Collected: 09/19/23 08:13 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 91.2

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 17:00	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		5			63319	09/26/23 14:41	CH	EET MID

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Matrix: Solid

Lab Sample ID: 880-33484-6

Matrix: Solid

Client Sample ID: BH3 3-4 Date Collected: 09/19/23 08:15

Date Received: 09/21/23 11:13

ſ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH3 3-4

Date Collected: 09/19/23 08:15 Date Received: 09/21/23 11:13

03/22/20 10.17	OIVIO	LL1 WID	
Lab Samp	ole ID: 8	880-33484-6	
		Matrix: Solid	

Percent Solids: 90.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 17:26	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 13:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 14:48	CH	EET MID

Client Sample ID: BH3 4-5

Date Collected: 09/19/23 08:17

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH3 4-5

Date Collected: 09/19/23 08:17

Date Received: 09/21/23 11:13

Lab Sample	ID:	880-33484-7
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Matrix: Solid Percent Solids: 79.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 17:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 14:54	CH	EET MID

Client Sample ID: BH4 1-2

Date Collected: 09/19/23 08:05

Date Received: 09/21/23 11:13

Lab	Sample	ID:	880-33484-8

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Released to Imaging: 10/8/2024 11:19:46 AM

Job ID: 880-33484-1

Client Sample ID: BH4 1-2

Date Collected: 09/19/23 08:05 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-8

Matrix: Solid

Percent Solids: 96.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 18:19	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 15:01	CH	EET MID

Client Sample ID: BH4 2-3

Date Collected: 09/19/23 08:08 Date Received: 09/21/23 11:13 Lab Sample ID: 880-33484-9 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH4 2-3

Date Collected: 09/19/23 08:08 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-9

Matrix: Solid

Percent Solids: 96.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 18:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 15:08	CH	EET MID

Client Sample ID: BH5 0-1

Date Collected: 09/19/23 08:19

Date Received: 09/21/23 11:13

Lab Sample	ID:	880-33484-10
		Matrix, Calid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH5 0-1

Date Collected: 09/19/23 08:19

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-10

Matrix: Solid

Percent Solids: 85.2

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 19:11	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		5			63319	09/26/23 15:28	CH	EET MID

Lab Sample ID: 880-33484-11

Matrix: Solid

Client Sample ID: BH5 3-4 Date Collected: 09/19/23 08:25

Date Received: 09/21/23 11:13

ſ	_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH5 3-4

Date Collected: 09/19/23 08:25 Date Received: 09/21/23 11:13

or Analyzed	Analyst	Lab
09/22/23 10:17	SMC	EET MID

Lab Sample ID: 880-33484-11 **Matrix: Solid** Percent Solids: 79.7

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 20:56	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 15:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 15:34	CH	EET MID

Client Sample ID: BH6 1-2

Date Collected: 09/19/23 09:27

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-12

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 63045 Total/NA Analysis D2216 09/22/23 10:17 SMC EET MID

Client Sample ID: BH6 1-2

Date Collected: 09/19/23 09:27

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-12 Matrix: Solid

Percent Solids: 95.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 21:22	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 16:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 15:54	CH	EET MID

Client Sample ID: BH6 2-3

Date Collected: 09/19/23 09:30

Date Received: 09/21/23 11:13

19	09/26/23 15:54	СН	EET MID	
	Lab Sampl	e ID: 8	80-33484-13	
			Matrix: Solid	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Job ID: 880-33484-1

Client Sample ID: BH6 2-3 Lab Sample ID: 880-33484-13 Date Collected: 09/19/23 09:30

Matrix: Solid

Date Received: 09/21/23 11:13 Percent Solids: 94.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 21:48	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 16:27	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 16:01	CH	EET MID

Client Sample ID: BH6 3-4

Date Collected: 09/19/23 09:33 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-14 Matrix: Solid

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis D2216 63045 09/22/23 10:17 SMC **EET MID**

Client Sample ID: BH6 3-4 Lab Sample ID: 880-33484-14

Date Collected: 09/19/23 09:33 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 96.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 22:14	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 14:32	CH	EET MID

Client Sample ID: BH7 3-4 Lab Sample ID: 880-33484-15

Date Collected: 09/19/23 09:36 Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH7 3-4 Lab Sample ID: 880-33484-15

Date Collected: 09/19/23 09:36 Matrix: Solid Date Received: 09/21/23 11:13 Percent Solids: 90.6

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 22:41	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 17:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		5			63344	09/26/23 14:50	CH	EET MID

Eurofins Midland

Matrix: Solid

Client Sample ID: BH7 4-5 Date Collected: 09/19/23 09:39

Lab Sample ID: 880-33484-16

Matrix: Solid

Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH7 4-5

Date Collected: 09/19/23 09:39 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-16 **Matrix: Solid**

Percent Solids: 89.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 23:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		5			63344	09/26/23 14:56	CH	EET MID

Client Sample ID: BH8 2-3

Date Collected: 09/19/23 09:48 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-17

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 63045 Total/NA Analysis D2216 09/22/23 10:17 SMC EET MID

Client Sample ID: BH8 2-3

Date Collected: 09/19/23 09:48

Date Received: 09/21/23 11:13

Lab	Sample	ID:	880-33484-17	
			Matrix: Solid	

Percent Solids: 94.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 23:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 18:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 15:01	CH	EET MID

Client Sample ID: BH8 3-4

Date Collected: 09/19/23 09:51

Date Received: 09/21/23 11:13

Lab Sample	D: 880-33484-18
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Eurofins Midland

Client: Civil & Environmental Consultants Inc

Project/Site: SEAWOLD 1 12 Federal #091H

Client Sample ID: BH8 3-4

Date Collected: 09/19/23 09:51 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-18 **Matrix: Solid**

Percent Solids: 79.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/26/23 23:59	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 18:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 15:07	CH	EET MID

Client Sample ID: BH9 2-3

Date Collected: 09/19/23 10:14 Date Received: 09/21/23 11:13

Batch

Batch

Lab Sample ID: 880-33484-19 Matrix: Solid

Batch Prepared Number or Analyzed Analyst Lab 09/22/23 10:17 SMC **EET MID**

Prep Type Туре Method Run Factor Amount Amount Total/NA Analysis D2216 63045 Client Sample ID: BH9 2-3

Initial

Final

Dil

Date Collected: 09/19/23 10:14 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-19 **Matrix: Solid** Percent Solids: 94.1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5 mL 63018 09/21/23 16:34 MNR **EET MID** 4.99 g Total/NA 8021B 63317 09/27/23 00:25 MNR Analysis 1 5 mL 5 mL **EET MID** Total/NA Prep 8015NM Prep 9.90 g 10 mL 63008 09/21/23 14:39 TKC **EET MID** Total/NA 63029 09/22/23 18:45 SM Analysis 8015B NM 1 uL 1 uL **EET MID** 4.96 g 50 mL 63038 09/22/23 08:22 Soluble Leach DI Leach AG EET MID Soluble Analysis 300.0 5 63344 09/26/23 15:25 CH **EET MID**

Client Sample ID: BH9 3-4

Date Collected: 09/19/23 10:16 Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-20 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63045	09/22/23 10:17	SMC	EET MID

Client Sample ID: BH9 3-4

Date Collected: 09/19/23 10:16

Date Received: 09/21/23 11:13

Matrix: Solid Percent Solids: 93.3

Lab Sample ID: 880-33484-20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63018	09/21/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63317	09/27/23 00:52	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63008	09/21/23 14:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63029	09/22/23 19:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 15:31	CH	EET MID

Eurofins Midland

Job ID: 880-33484-1

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Lab Sample ID: 880-33484-21

Matrix: Solid

Client Sample ID: BH10 0-1 Date Collected: 09/19/23 11:07

Date Received: 09/21/23 11:13

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Į	Total/NA	Analysis	D2216		1			63048	09/22/23 10:20	SMC	EET MID

Client Sample ID: BH10 0-1

Date Collected: 09/19/23 11:07

Date Received: 09/21/23 11:13

09/22/23 10:20	SMC	EET MID
Lab Sample	e ID: 88	0-33484-21

Matrix: Solid Percent Solids: 90.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/26/23 23:21	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 10:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 15:36	CH	EET MID

Client Sample ID: BH10 2-3

Date Collected: 09/19/23 11:10

Date Received: 09/21/23 11:13

Lab Sample ID: 880-33484-22

Lab Sample ID: 880-33484-23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63048	09/22/23 10:20	SMC	EET MID

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Dat

lient Sample ID: BH10 2-3	Lab Sample ID: 880-33484-22
ate Collected: 09/19/23 11:10	Matrix: Solid
ate Received: 09/21/23 11:13	Percent Solids: 95.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/26/23 23:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63038	09/22/23 08:22	AG	EET MID
Soluble	Analysis	300.0		1			63344	09/26/23 15:42	CH	EET MID

Client Sample ID: BH11 0-1

Date Collected: 09/19/23 11:19

Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216					63048	09/22/23 10:20	SMC	EET MID

Eurofins Midland

Job ID: 880-33484-1

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H

Lab Sample ID: 880-33484-23

Matrix: Solid

Percent Solids: 94.7

Client Sample ID: BH11 0-1 Date Collected: 09/19/23 11:19 Date Received: 09/21/23 11:13

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 63020 09/21/23 17:02 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 63282 09/27/23 00:02 MNR EET MID Total/NA Prep 8015NM Prep 9.96 q 10 mL 63004 09/21/23 14:28 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 63027 09/22/23 12:05 SM **EET MID** Soluble Leach DI Leach 5.02 a 50 mL 63036 09/22/23 08:16 AG **EET MID** Soluble Analysis 300.0 5 50 mL 50 mL 63236 09/26/23 01:43 СН **EET MID**

Client Sample ID: BH11 1-2

Date Collected: 09/19/23 11:21 Date Received: 09/21/23 11:13 Lab Sample ID: 880-33484-24 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis D2216 63048 09/22/23 10:20 SMC **EET MID**

Client Sample ID: BH11 1-2 Lab Sample ID: 880-33484-24

Date Collected: 09/19/23 11:21 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 95.3

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/27/23 00:23	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 12:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:49	CH	EET MID

Client Sample ID: BH12 2-3 Lab Sample ID: 880-33484-25

Date Collected: 09/19/23 11:34 Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			63048	09/22/23 10:20	SMC	EET MID

Client Sample ID: BH12 2-3 Lab Sample ID: 880-33484-25

Date Collected: 09/19/23 11:34 **Matrix: Solid** Date Received: 09/21/23 11:13 Percent Solids: 93.4

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/27/23 00:43	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 16:08	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH12 3-4 Lab Sa
Date Collected: 09/19/23 11:37

Lab Sample ID: 880-33484-26

Date Received: 09/21/23 11:13

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab EET MID Total/NA Analysis D2216 63048 09/22/23 10:20 SMC

Total/NA Analysis D2216 1 63048 09/22/23 10:20 SMC EET MID

Client Sample ID: BH12 3-4 Lab Sample ID: 880-33484-26

Date Collected: 09/19/23 11:37

Date Propert Solids: 95 2

Date Received: 09/21/23 11:13 Percent Solids: 95.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/27/23 01:04	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 13:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 16:14	CH	EET MID

Client Sample ID: BH13 0-1 Lab Sample ID: 880-33484-27

Date Collected: 09/19/23 11:50 Matrix: Solid

Date Received: 09/21/23 11:13

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 63048 Total/NA Analysis D2216 09/22/23 10:20 SMC EET MID

Client Sample ID: BH13 0-1 Lab Sample ID: 880-33484-27

Date Collected: 09/19/23 11:50

Matrix: Solid

Date Received: 09/21/23 11:13

Percent Solids: 94.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/27/23 01:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		5			63319	09/26/23 16:21	CH	EET MID

Client Sample ID: BH13 1-2 Lab Sample ID: 880-33484-28

Date Collected: 09/19/23 11:55 Date Received: 09/21/23 11:13

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis D2216 63048 09/22/23 10:20 SMC **EET MID**

Eurofins Midland

Lab Chronicle

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Client Sample ID: BH13 1-2

Lab Sample ID: 880-33484-28

Matrix: Solid

Percent Solids: 94.8

Date Collected: 09/19/23 11:55 Date Received: 09/21/23 11:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63020	09/21/23 17:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63282	09/27/23 01:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63004	09/21/23 14:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63027	09/22/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 16:28	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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Method Summary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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Sample Summary

Client: Civil & Environmental Consultants Inc Project/Site: SEAWOLD 1 12 Federal #091H Job ID: 880-33484-1

00-33404-1	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33484-1	BH1 0-1	Solid	09/18/23 15:58	09/21/23 11:13
880-33484-2	BH2 2-3	Solid	09/19/23 07:57	09/21/23 11:13
880-33484-3	BH2 3-4	Solid	09/19/23 08:00	09/21/23 11:13
880-33484-4	BH3 0-1	Solid	09/19/23 08:11	09/21/23 11:13
880-33484-5	BH3 2-3	Solid	09/19/23 08:13	09/21/23 11:13
880-33484-6	BH3 3-4	Solid	09/19/23 08:15	09/21/23 11:13
880-33484-7	BH3 4-5	Solid	09/19/23 08:17	09/21/23 11:13
880-33484-8	BH4 1-2	Solid	09/19/23 08:05	09/21/23 11:13
880-33484-9	BH4 2-3	Solid	09/19/23 08:08	09/21/23 11:13
880-33484-10	BH5 0-1	Solid	09/19/23 08:19	09/21/23 11:13
880-33484-11	BH5 3-4	Solid	09/19/23 08:25	09/21/23 11:13
880-33484-12	BH6 1-2	Solid	09/19/23 09:27	09/21/23 11:13
880-33484-13	BH6 2-3	Solid	09/19/23 09:30	09/21/23 11:13
880-33484-14	BH6 3-4	Solid	09/19/23 09:33	09/21/23 11:13
880-33484-15	BH7 3-4	Solid	09/19/23 09:36	09/21/23 11:13
880-33484-16	BH7 4-5	Solid	09/19/23 09:39	09/21/23 11:13
880-33484-17	BH8 2-3	Solid	09/19/23 09:48	09/21/23 11:13
880-33484-18	BH8 3-4	Solid	09/19/23 09:51	09/21/23 11:13
880-33484-19	BH9 2-3	Solid	09/19/23 10:14	09/21/23 11:13
880-33484-20	BH9 3-4	Solid	09/19/23 10:16	09/21/23 11:13
880-33484-21	BH10 0-1	Solid	09/19/23 11:07	09/21/23 11:13
880-33484-22	BH10 2-3	Solid	09/19/23 11:10	09/21/23 11:13
880-33484-23	BH11 0-1	Solid	09/19/23 11:19	09/21/23 11:13
880-33484-24	BH11 1-2	Solid	09/19/23 11:21	09/21/23 11:13
880-33484-25	BH12 2-3	Solid	09/19/23 11:34	09/21/23 11:13
880-33484-26	BH12 3-4	Solid	09/19/23 11:37	09/21/23 11:13
880-33484-27	BH13 0-1	Solid	09/19/23 11:50	09/21/23 11:13

Solid

09/21/23 11:13

09/19/23 11:55

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880-33484-28

BH13 1-2

Received by OCD: 8/20/2024 10:25:13 AM

Eurofins Midland

1211 W Florida Ave Midland, TX 79701 Phone (432) 704-5440

Chain of Custody Record



Client Information	Sampler Lab PM N.SHEPHERP Richter, Travis					Carrier Trackin					80-33484	Chain of Custody	
Client Contact: Ms Laura Campbell / Gand Briggin	Phone 405 815 76	in the E-	-Mail	ter@et.eurofinsus.com						Page: Page 1 of /2 3			
Company Civil & Environmental Consultants Inc		PWSID [.]		Analysis Requested					***************************************			Job#	
Address 700 Cherrington Parkway	Due Date Requested					1		Jqued		ПТ		Preservation Codes	
City Moon Township	TAT Requested (days)											B NaOH	M Hexane N - None D AsNaO2
State, Zip: PA 15108	Compliance Project	Δ No	_ []									D Nitric Acid	P Na2O4S Q Na2SO3
Phone: 800-365-2324(Tel)	PO#:											F MeOH G Amchlor	R Na2S2O3 S H2SO4 F TSP Dodecahydrate
Email: Campbell@cecinc.com	WO#					pou						I DI Water	J Acetone / MCAA
Project Name SEAWOLF 1 12 FEDERAL #091H	Project #: 88001737			Chloride		Local Method					ainers	K EDTA	V pH 4-5 Y Trizma
Site	SSOW#	*************************************		8D - Chlor Full TPH	1 1	. 1					l die	Other [.]	Z other (specify)
		Sample Matrix	× Specific	1 73 1 '	1 1 1						Dero		
	Sample	Type (W=water S=solid, O=waste/ol		300_ORGFM_3 8015MOD_NM	18 - 81	MOISTURE							
Sample Identification	Sample Date Time	G=grab) BT=Tissue, A=	=Air) LL Z	, SANSKANNING SANSKAN		E					Total	Special Inst	ructions/Note:
BH1 0-1	9/18/23 15:58	Preservation Code Solid		N N X X	N N	7						402	
BH2 2-3	9/19/207:51	G Solid		XX	1 1							702	<u> </u>
BH2 3-4	9/19/23 08:00	G Solid		XX	X	X							******
BH3 0-1	9/19/2308:11	G Solid		χx	XX						7		
BH3 2-3	9/19/23 08:13	G Solid		XX	X	X					1		****
BH3 3-9	9/19/23 08:15	G Solid		XX	X	X					2		
BH3 4-5	9/19/23 08:17	G Solid		×X	x /	X					1		
BH4 1-2	9/19/23 08:05	G Solid	1	XX		X					1		
BH4 23	9/19/23 08:08			XX	X	X_					2		
BH5 0-1	9/19/23 08:19	G Solid		XX	X						12		
BH5 3-4 Possible Hazard Identification	9/19/23 08:25	G Solid		X X	χ)	(4 500						ned longer than 1 n	
Non-Hazard Flammable Skin Irritant Poise	on B Unknown R	Radiological			n To C		may be	Dispo:	sal By L	ampies ab		n ed longer than 1 i nive For	nonth) Months
Deliverable Requested I II III IV Other (specify)			Spe	ecial Ins	truction	s/QC R			色产				
Empty Kit Relinquished by	Date		Time						Method o				
Relinguished by	Pate/Time: 9(20/23 10:00	Company CEC	2	Received	l by.	9	1		Market State of State	Date/Ti	012	1103	Company
Relinquished by	Date/Time:	Company		Received	l by.			•		Date/Ti	me: V	1113	Company
Relinquished by [,]	Date/Time ⁻	Company		Received	l by [.]					Date/T	me		Company
Custody Seals Intact. Δ Yes Δ No				Cooler To	əmperatu	re(s) °C a	and Other	Remark	(S.		5	2.512	2

Received by OCD: 8/20/2024 10:25:13 AM

9/27/2023

Eurofins Midland

1211 W	Florida Ave
Midland	TX 79701
Phone (4	132) 704-5440

Chain of Custody Record

🛟 eurofins	***************************************		
33496		Environment	Testin

Client Information	Sampler N, SHEP HE	RD	Lab PM Richter Tra	Carrier Tracking					rier Track	ing No(s)	1	ر. حد	COC No 880-6828-956 2	
Client Contact: Ms. Laura Campbell Bo. AD Beitt Ain	Phone: 465 815 7						State of Origiter@et.eurofinsus com						Page: Page 2 of / 3	
Company Civil & Environmental Consultants Inc		PWSID:	·	Analysis Requested					sted				Job#	
Address. 700 Cherrington Parkway	Due Date Requested	Due Date Requested						10400	TT				Preservation Codes	
City Moon Township	TAT Requested (days)												A HCL M Hexane B NaOH N None C 75 Asstate O AsNaO2	
State Zip													D Nitric Acid P Na2O4S	
PA 15108 Phone:	Compliance Project	ΔNO											F MeOH R Na2S2O3 G Amphior S H2SO4	
800-365-2324(Tel) Email	WO#		<u> </u>		,								H Ascorbic Acid I ISP Dodecanydrate U Acetone	
Email	Project #		- S S	<u>e</u>	Metho							8.03	J DI Water V MCAA K EDTA W pH 4-5	
SEAWOLF 1 12 FEDERAL #091H Site	88001737		스 Big	Chloride	Local		ı					ontair	L EDA Y Trizma Z other (specify)	
Site	SSOW#		S S	28D - Chlor	40G							of	Other [.]	
		Sample Mat		FM_2	8021B - BTEX MOISTURE 2540G - Local Method							m ber		
	Sample	Type (W=w: S=so (C=comp, O=wast	lid,	300_ORGFM_X 8015MOD_NM	18 - E							Total Number		
Sample Identification	Sample Date Time	G=grab) BT=Tissue	, A=Air) 🖺 🚨	2 30 2 300	8021B		ALL P.					$\frac{1}{X}$	Special Instructions/Note.	
BH6 1-2	वाविष्ठ व्यः या	G Sol			XX			<u> </u>				2		
BH6 2-3	9/19/23 09:30	G Sol		XX	XX							2	1	
BH4 3-4	9/19/23 09:33			Χχ	χλ				++			ź		
BH7 3-4	2/12/2302:36	G Sol		XX	+•	-		-	1	_		7		
BH7 4-5	9/10h 2ha-20	G Sol		λX	ŶX					-		7		
BHS 2-3	1/19/23 39:48		lid	χþ	VY		\dashv		++	_	++	2		
BH8 3-4	9/19/2309:81	G Sol	lıd	XX		-						2		
	9/19/13/10:14	G Soi	lid	XX	x >				++	_		2		
B19 3-4	7/19/2310:16		lid	λλ	ŶX				+		++	2		
BH 10 0-1	9/19/13 167	G		1 (1, 1	•			+			2		
BH 10 2-3	9/19/23 1110	G			1, 1				11		t	2		
Possible Hazard Identification			Sa	mple Di	sposal (A fee	may	be ass	essed i	f samp	les are	retair	ned longer than 1 month)	
Non-Hazard Flammable Skin Irritant Poisc Deliverable Requested	n B Unknown F	Radiological	L		<i>rn To Cli</i> tructions		L	Disp	osal By	Lab		Arch	nive For Months	
Empty Kit Relinquished by	ID-t-		<u> </u>	eciai ilis	i uctions	QC R	squire	ements		4 - 4 0 - 1 -				
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Relinquished by	Date/Time	Compar Compar				<u> </u>	<u> </u>	*	<u>X</u>		·	13	71/23	
				Receive							e/Time·	V	11 13 Company	
Relinquished by	Date/Time	Compar	ny	Receive	d by					Dat	e/Time		Company	
Custody Seals Intact. Δ Yes Δ No				Cooler T	emperatur	e(s) °C a	ind Oth	ner Rema	arks:					

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Eurofins Midland 1211 W Florida Ave		 .															ينو هد	
Midland TX 79701	(Chain (of Cus	stody R	ecc	ord	l									٠	💸 eurofin:	S & Environment Testing
Phone (432) 704-5440	-							. <u></u>	· <u></u>								3348	A missionimic tono
Client Information		tepher	~P		ter Tra	Travis W					Trackin	g No(s) COC No: 880-6827-9432 956.3				a 956.3		
Client Contact: Ms Laura Campbell / Baso Barran	Phone.	35 760		E-Mail Travi	il. ris Rich	hter@	⊉et eu	ırofin	sus c	om	5	State of	Origin	Page Page Age 3 of				
Company Civil & Environmental Consultants Inc			PWSID					***************************************	An	alysis	Regi	ıeste	ed .				Job#:	<u> </u>
Address: 700 Cherrington Parkway	Due Date Reques	sted	dana						Ī		ΙÌ		Ť	T			Preservation C	
City ⁻ Moon Township	TAT Requested (days)															A HCL B NaOH C Zn Acetate	M Hexane N - None O - AsNaO2
State, Zip PA, 15108	Compliance Proje	ect: ∆ Yes	Δ No														D Nitric Acid E NaHSO4	P - Na2O4S Q Na2SO3 R Na2S2O3
Phone 800-365-2324(Tel)	PO#:				5												F MeOH G Amchlor H Ascorbic Acid	S H2SO4
800-365-2324(Tel) Email Icampbell@cecinc.com	WO#				or No				thod								I Ice	U Acetone V - MCAA
Project Name Scawoff 112 Falary 91 H	Project #: 88001737		ROLLING CALIFORNIA CONTRACTOR CON	***************************************	8 8	Chloride	_		cal Me							containers	K EDTA L EDA	W pH 4-5 Y Trizma
Site	SSOW#				aldmes Sample		- Full TPH		0G - Lo							ofcont		Z other (specify)
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oii,	d Filtered form MS/N	300_ORGFM_28D	8015MOD_NM -	8021B - BTEX	MOISTURE_2540G - Local Method							Total Number o		
Sample Identification	Sample Date		G=grab)	BT=Tissue, A=Air) ation Code:	1. C.	1000 TO	S 100 CO	30 505000	C10-2114-000-014							ao _t	Special	Instructions/Note:
BH 11 0-1	0-10 22	Tina		T	A	N.	N	N .	N .		14	4	<u> </u>			_ <u> </u>		
BH 11 1-2	9-19-23	1119	G	Solid	H	+	1	1	!		1-1	-		-		2		
BH 12 2-3	 	[12]		Solid Solid	$\vdash \vdash$	4	1:	-	<u> </u>	_	\dashv		+	╀-		0		
BH 12 3-4	 	1137		Solid	H	+:		1			++	+	+	-	-	3		
B413 O-1	 	1150	++-	Solid	+-	+	-	•	+		+	_		-	-	2		
B413 1-2	-	1155	\Box	Solid	\vdash	+		1	+	_	++		+	\vdash		0.0		Loc: 880 -
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Possible Hazard Identification Skin Irritant Poisc	on B Unkr		Radiological		Sa					ee may	be as	sess	ed if s	ampi	es are	retain	ned longer than	•
Deliverable Requested I II III IV Other (specify)	JII B UNKI	iown R	tadiological	Accession 1	Sp		Return Instru			Requi	Di:	sposa s.				Arch	ive For	Months
Empty Kit Relinquished by		Date			Time					·		M	ethod o	DD f Shipn	nent:	***************************************		
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Relinquished by	Date/Time:			Company		Rece	eived b	oy.				<u> </u>			/Time	001	133	2 Company
Relinquished by	Date/Time			Company		Rece	eived b	y.						Date	/Time		- - 	Company
Custody Seals Intact: Custody Seal No				<u> </u>		Cool	ler Terr	nperati	ure(s) '	°C and C	ther Re	narks.			•			

Login Sample Receipt Checklist

Job Number: 880-33484-1 Client: Civil & Environmental Consultants Inc

Login Number: 33484 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
		Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell Civil & Environmental Consultants Inc 700 Cherrington Parkway Moon Township, Pennsylvania 15108

Generated 11/7/2023 9:12:24 AM Revision 1

JOB DESCRIPTION

Seawolf Federal 1-12-91H SDG NUMBER 335-562

JOB NUMBER

820-10710-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424

Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All guestions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by Travis Richter, Project Manager Travis.Richter@et.eurofinsus.com (281)794-7216

Eurofins Lubbock is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 39 11/7/2023 (Rev. 1)

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Laboratory Job ID: 820-10710-1 SDG: 335-562

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QC Association Summary	23
Lab Chronicle	27
Certification Summary	33
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Sample Summary	35
Chain of Custody	36
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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H

SDG: 335-562

Qualifiers

GC VOA

Qualifier **Qualifier Description** J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
LIDL O/IO	

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

LOD

Giossaiy				
Abbreviation	These commonly used abbreviations may or may not be present in this report.			
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis			
%R	Percent Recovery			
CFL	Contains Free Liquid			
CFU	Colony Forming Unit			
CNF	Contains No Free Liquid			
DER	Duplicate Error Ratio (normalized absolute difference)			
Dil Fac	Dilution Factor			
DL	Detection Limit (DoD/DOE)			
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample			

DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

Method Detection Limit
Minimum Level (Dioxin)
Most Probable Number
Method Quantitation Limit

NC Not Calculated

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitatio

PQL	Practical Quantitation Limit
PRES	Presumptive

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

DI.	Demands of Lineth on Demonstrat Lineth	/D = -l: = -l=: -4\
KL	Reporting Limit or Requested Limit	(Radiochemistry)

		•	•	• •	
PDD	Relative Percei	nt Difference s	measure of the	relative difference	hetween two noints

111 5	rtolativo i ordont Billorondo, a moade
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

Job ID: 820-10710-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-10710-1

REVISION

The report being provided is a revision of the original report sent on 11/6/2023. The report (revision 1) is being revised due to Original report requires revision to remove unrequested results..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/31/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66099 and analytical batch 880-66131 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65997 and analytical batch 880-66029 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66029/20) and (CCV 880-66029/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-65997 and analytical batch 880-66029 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65997 and analytical batch 880-66029 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added to the CCV associated with analytical batch 880-66029. Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65991 and analytical batch 880-66206 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Eurofins Lubbock 11/7/2023 (Rev. 1)

Case Narrative

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Job ID: 820-10710-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

SDG: 335-562

Client Sample Results

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H

Client Sample ID: BH-14 1-2' Lab Sample ID: 820-10710-1 Date Collected: 10/30/23 10:22 **Matrix: Solid**

Date Received: 10/31/23 10:00 Percent Solids: 92.3 Sample Depth: 1 - 2

ı			
ı	Method: SW846 8021B - Volatile	Organic Compounds (GC)	
ı	Method. 344040 002 1D - Volatile	Organic Compounds (CC	' 1

Welliou. 344046 602 1D - 40	nethod. Sw646 602 rb - volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.000413	U	0.00215	0.000413	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 12:00	1			
Toluene	< 0.000489	U	0.00215	0.000489	mg/Kg	₽	11/02/23 15:23	11/03/23 12:00	1			
Ethylbenzene	<0.000606	U	0.00215	0.000606	mg/Kg	☼	11/02/23 15:23	11/03/23 12:00	1			
m-Xylene & p-Xylene	<0.00108	U	0.00429	0.00108	mg/Kg	₽	11/02/23 15:23	11/03/23 12:00	1			
o-Xylene	0.000473	J	0.00215	0.000369	mg/Kg	₽	11/02/23 15:23	11/03/23 12:00	1			
Xylenes, Total	<0.00108	U	0.00429	0.00108	mg/Kg	₩	11/02/23 15:23	11/03/23 12:00	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	91		70 - 130				11/02/23 15:23	11/03/23 12:00	1			
1,4-Difluorobenzene (Surr)	101		70 - 130				11/02/23 15:23	11/03/23 12:00	1			

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: SVV846 8015B NM - D	ilesei Kange	e Organics							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.2	U F1	53.9	16.2	mg/Kg	<u></u>	11/01/23 14:49	11/02/23 11:07	1
Diesel Range Organics (Over C10-C28)	18.1	J F1 B	53.9	16.2	mg/Kg	₩	11/01/23 14:49	11/02/23 11:07	1
Oll Range Organics (Over C28-C36)	<16.2	U	53.9	16.2	mg/Kg	₽	11/01/23 14:49	11/02/23 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/01/23 14:49	11/02/23 11:07	1

Method: EPA 300.0 - Anions	, Ion Chromatography - Soluble
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Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.95	0.391	mg/Kg			11/03/23 00:50	1

70 - 130

Client Sample ID: BH-14 2-3'

Date Collected: 10/30/23 10:26 Date Received: 10/31/23 10:00

Sample Depth: 2 - 3

o-Terphenyl

Lab Sample ID: 820-10710-2

11/01/23 14:49 11/02/23 11:07

Matrix: Solid Percent Solids: 93.0

Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000418	U	0.00217	0.000418	mg/Kg	☆	11/02/23 15:23	11/03/23 12:20	1
Toluene	< 0.000495	U	0.00217	0.000495	mg/Kg	₩	11/02/23 15:23	11/03/23 12:20	1
Ethylbenzene	< 0.000614	U	0.00217	0.000614	mg/Kg	₩	11/02/23 15:23	11/03/23 12:20	1
m-Xylene & p-Xylene	<0.00110	U	0.00434	0.00110	mg/Kg	₽	11/02/23 15:23	11/03/23 12:20	1
o-Xylene	< 0.000374	U	0.00217	0.000374	mg/Kg	₩	11/02/23 15:23	11/03/23 12:20	1
Xylenes, Total	<0.00110	U	0.00434	0.00110	mg/Kg	₩	11/02/23 15:23	11/03/23 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				11/02/23 15:23	11/03/23 12:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/02/23 15:23	11/03/23 12:20	1

Made als OWO 40 O	OAED NIME DIS	I D O	(DDO) (OO)
Method: SW846 8	UTSB NIVI - DIE	sei Rande Urda	INICS (DRU) (GG)

method: 044040 0010D Mm - Dieser Range Organics (DICO) (OO)											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Gasoline Range Organics	<16.1	U	53.7	16.1	mg/Kg		11/01/23 14:49	11/02/23 12:14	1	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	21.6	JB	53.7	16.1	mg/Kg	☼	11/01/23 14:49	11/02/23 12:14	1	
	C10-C28)										

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Lab Sample ID: 820-10710-2

Matrix: Solid

Percent Solids: 93.0

11/03/23 01:06

Lab Sample ID: 820-10710-3

Client Sample ID: BH-14 2-3'

Date Collected: 10/30/23 10:26 Date Received: 10/31/23 10:00

Sample Depth: 2 - 3

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<16.1	U	53.7	16.1	mg/Kg	<u></u>	11/01/23 14:49	11/02/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/01/23 14:49	11/02/23 12:14	1
o-Terphenyl	96		70 - 130				11/01/23 14:49	11/02/23 12:14	1

5.00

0.395 mg/Kg

Client Sample ID: BH-15 0-1'

Date Collected: 10/30/23 10:30	Matrix: Solid
Date Received: 10/31/23 10:00	Percent Solids: 95.1
Sample Depth: 0 - 1	
Г	

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000406	U	0.00211	0.000406	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 12:41	1
Toluene	<0.000481	U	0.00211	0.000481	mg/Kg	₩	11/02/23 15:23	11/03/23 12:41	1
Ethylbenzene	< 0.000596	U	0.00211	0.000596	mg/Kg	☆	11/02/23 15:23	11/03/23 12:41	1
m-Xylene & p-Xylene	<0.00107	U	0.00422	0.00107	mg/Kg	₩	11/02/23 15:23	11/03/23 12:41	1
o-Xylene	< 0.000363	U	0.00211	0.000363	mg/Kg	☆	11/02/23 15:23	11/03/23 12:41	1
Xylenes, Total	<0.00107	U	0.00422	0.00107	mg/Kg	☼	11/02/23 15:23	11/03/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/02/23 15:23	11/03/23 12:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/02/23 15:23	11/03/23 12:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	52.1	15.6	mg/Kg	‡	11/01/23 14:49	11/02/23 12:36	1
Diesel Range Organics (Over C10-C28)	56.5	В	52.1	15.6	mg/Kg	₩	11/01/23 14:49	11/02/23 12:36	1
Oll Range Organics (Over C28-C36)	<15.6	U	52.1	15.6	mg/Kg	₩	11/01/23 14:49	11/02/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				11/01/23 14:49	11/02/23 12:36	1
o-Terphenyl	96		70 - 130				11/01/23 14:49	11/02/23 12:36	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		24.8	1.96	mg/Kg			11/03/23 01:12	5

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Client Sample ID: BH-15 3-4'

Lab Sample ID: 820-10710-4

Date Collected: 10/30/23 10:34 Date Received: 10/31/23 10:00

Matrix: Solid Percent Solids: 90.6

Sample Depth: 3 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000428	U	0.00223	0.000428	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 13:01	1
Toluene	< 0.000507	U	0.00223	0.000507	mg/Kg	₩	11/02/23 15:23	11/03/23 13:01	1
Ethylbenzene	0.000860	J	0.00223	0.000629	mg/Kg	₩	11/02/23 15:23	11/03/23 13:01	1
m-Xylene & p-Xylene	<0.00112	U	0.00445	0.00112	mg/Kg	₩	11/02/23 15:23	11/03/23 13:01	1
o-Xylene	<0.000383	U	0.00223	0.000383	mg/Kg	₩	11/02/23 15:23	11/03/23 13:01	1
Xylenes, Total	<0.00112	U	0.00445	0.00112	mg/Kg	≎	11/02/23 15:23	11/03/23 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/02/23 15:23	11/03/23 13:01	1
1.4-Difluorobenzene (Surr)	103		70 - 130				11/02/23 15:23	11/03/23 13:01	1

1,4-Diffuorobenzene (Surr)	103		70 - 130				11/02/23 15:23	11/03/23 13:01	7
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.7	J	55.2	16.6	mg/Kg	₩	11/01/23 14:49	11/02/23 12:58	1
Diesel Range Organics (Over C10-C28)	79.7	В	55.2	16.6	mg/Kg	₩	11/01/23 14:49	11/02/23 12:58	1
Oll Range Organics (Over C28-C36)	<16.6	U	55.2	16.6	mg/Kg	☼	11/01/23 14:49	11/02/23 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				11/01/23 14:49	11/02/23 12:58	1
o-Terphenyl	97		70 - 130				11/01/23 14:49	11/02/23 12:58	1

	Method: EPA 300.0 - Anions,	Ion Chromat	ography -	Soluble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	3580		25.2	1.99	mg/Kg			11/03/23 01:17	5

Client Sample ID: BH-16 0-1' Date Collected: 10/30/23 10:38 Date Received: 10/31/23 10:00

Lab Sample ID: 820-10710-5 Matrix: Solid Percent Solids: 88.4

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000433	U	0.00225	0.000433	mg/Kg	*	11/02/23 15:23	11/03/23 13:22	1
Toluene	<0.000513	U	0.00225	0.000513	mg/Kg	₩	11/02/23 15:23	11/03/23 13:22	1
Ethylbenzene	0.000704	J	0.00225	0.000635	mg/Kg	₩	11/02/23 15:23	11/03/23 13:22	1
m-Xylene & p-Xylene	<0.00114	U	0.00450	0.00114	mg/Kg	₩	11/02/23 15:23	11/03/23 13:22	1
o-Xylene	< 0.000387	U	0.00225	0.000387	mg/Kg	₩	11/02/23 15:23	11/03/23 13:22	1
Xylenes, Total	<0.00114	U	0.00450	0.00114	mg/Kg	≎	11/02/23 15:23	11/03/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/02/23 15:23	11/03/23 13:22	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/02/23 15:23	11/03/23 13:22	1

Wethod: 544846 8015B NW - D	iesei Range	organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.8	J	56.8	17.0	mg/Kg	-	11/01/23 14:49	11/02/23 13:20	1
Diesel Range Organics (Over C10-C28)	33.7	JB	56.8	17.0	mg/Kg	₩	11/01/23 14:49	11/02/23 13:20	1

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H

SDG: 335-562

Client Sample ID: BH-16 0-1'

Lab Sample ID: 820-10710-5 **Matrix: Solid**

Date Collected: 10/30/23 10:38 Date Received: 10/31/23 10:00

Percent Solids: 88.4

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<17.0	U	56.8	17.0	mg/Kg	<u></u>	11/01/23 14:49	11/02/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/01/23 14:49	11/02/23 13:20	1
o-Terphenyl	104		70 - 130				11/01/23 14:49	11/02/23 13:20	1

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 4.98 Chloride 82.3 0.393 mg/Kg 11/03/23 01:22

Client Sample ID: BH-16 3-4'

Lab Sample ID: 820-10710-6

11/01/23 14:49 11/02/23 13:41

11/01/23 14:49 11/02/23 13:41

Date Collected: 10/30/23 10:42 Date Received: 10/31/23 10:00

Matrix: Solid Percent Solids: 88.6

Sample Depth: 3 - 4

1-Chlorooctane

o-Terphenyl

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000433	U	0.00225	0.000433	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 13:42	1
Toluene	<0.000513	U	0.00225	0.000513	mg/Kg	₩	11/02/23 15:23	11/03/23 13:42	1
Ethylbenzene	<0.000636	U	0.00225	0.000636	mg/Kg	₩	11/02/23 15:23	11/03/23 13:42	1
m-Xylene & p-Xylene	<0.00114	U	0.00450	0.00114	mg/Kg	₩	11/02/23 15:23	11/03/23 13:42	1
o-Xylene	<0.000387	U	0.00225	0.000387	mg/Kg	₩	11/02/23 15:23	11/03/23 13:42	1
Xylenes, Total	<0.00114	U	0.00450	0.00114	mg/Kg	₩	11/02/23 15:23	11/03/23 13:42	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	70 - 130	11/02/23 15:23	11/03/23 13:42	1
1,4-Difluorobenzene (Surr)	111	70 - 130	11/02/23 15:23	11/03/23 13:42	1
Method: SW846 8015B NM - D	iosal Rango Organics	(DPO) (GC)			

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.1	J	56.0	16.8	mg/Kg	₩	11/01/23 14:49	11/02/23 13:41	1
Diesel Range Organics (Over C10-C28)	103	В	56.0	16.8	mg/Kg	₩	11/01/23 14:49	11/02/23 13:41	1
Oll Range Organics (Over C28-C36)	20.1	J	56.0	16.8	mg/Kg	☼	11/01/23 14:49	11/02/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Id	on Chromatography - S	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.5	4.99	0.394 mg/Kg			11/03/23 01:27	1

70 - 130 70 - 130

97

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Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

Client Sample ID: BH-17 0-1'

Lab Sample ID: 820-10710-7 **Matrix: Solid**

11/01/23 14:49 11/02/23 14:04

Date Collected: 10/30/23 16:37 Date Received: 10/31/23 10:00

Percent Solids: 95.2

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	☆	11/02/23 15:23	11/03/23 14:03	1
Toluene	< 0.000474	U	0.00208	0.000474	mg/Kg	₩	11/02/23 15:23	11/03/23 14:03	1
Ethylbenzene	<0.000588	U	0.00208	0.000588	mg/Kg	☼	11/02/23 15:23	11/03/23 14:03	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	₩	11/02/23 15:23	11/03/23 14:03	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	☼	11/02/23 15:23	11/03/23 14:03	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	≎	11/02/23 15:23	11/03/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/02/23 15:23	11/03/23 14:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/02/23 15:23	11/03/23 14:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit **Prepared** Analyzed Dil Fac **Gasoline Range Organics** 15.6 J 52.0 15.6 mg/Kg 11/01/23 14:49 11/02/23 14:04 (GRO)-C6-C10 **Diesel Range Organics (Over** 52.0 15.6 mg/Kg 11/01/23 14:49 11/02/23 14:04 25.4 JB C10-C28) Oll Range Organics (Over C28-C36) <15.6 U 52.0 15.6 mg/Kg 11/01/23 14:49 11/02/23 14:04 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 93 70 - 130 11/01/23 14:49 11/02/23 14:04

Method: EPA 300.0 - Anio	ons, Ion Chromatography - S	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.2	4.97	0.393 mg/Kg			11/03/23 01:32	1

70 - 130

Client Sample ID: BH-17 3-4' Lab Sample ID: 820-10710-8 Date Collected: 10/30/23 16:40 Percent Solids: 93.3 Date Received: 10/31/23 10:00

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Sample Depth: 3 - 4

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000414	U	0.00215	0.000414	mg/Kg	☼	11/02/23 15:23	11/03/23 14:23	1
Toluene	< 0.000491	U	0.00215	0.000491	mg/Kg	₩	11/02/23 15:23	11/03/23 14:23	1
Ethylbenzene	0.000718	J	0.00215	0.000608	mg/Kg	₩	11/02/23 15:23	11/03/23 14:23	1
m-Xylene & p-Xylene	<0.00109	U	0.00431	0.00109	mg/Kg	₩	11/02/23 15:23	11/03/23 14:23	1
o-Xylene	< 0.000370	U	0.00215	0.000370	mg/Kg	₩	11/02/23 15:23	11/03/23 14:23	1
Xylenes, Total	<0.00109	U	0.00431	0.00109	mg/Kg	≎	11/02/23 15:23	11/03/23 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/02/23 15:23	11/03/23 14:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/02/23 15:23	11/03/23 14:23	1

Method: SW846 8015B NM - I	Diesel Range	Organics	s (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.0	U	53.4	16.0	mg/Kg	-	11/01/23 14:49	11/02/23 14:25	1
Diesel Range Organics (Over C10-C28)	18.3	JB	53.4	16.0	mg/Kg	₽	11/01/23 14:49	11/02/23 14:25	1

Eurofins Lubbock

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Client Sample ID: BH-17 3-4'

Lab Sample ID: 820-10710-8

11/02/23 15:23 11/03/23 14:44

Matrix: Solid

Date Collected: 10/30/23 16:40 Date Received: 10/31/23 10:00

Percent Solids: 93.3

Sample Depth: 3 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<16.0	U	53.4	16.0	mg/Kg	₩	11/01/23 14:49	11/02/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/01/23 14:49	11/02/23 14:25	1
o-Terphenyl	94		70 - 130				11/01/23 14:49	11/02/23 14:25	1
Method: EPA 300.0 - Anions,	lon Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.04	0.398	mg/Kg			11/03/23 01:38	

Lab Sample ID: 820-10710-9 Client Sample ID: BH-18 0-1'

Date Collected: 10/30/23 16:28 **Matrix: Solid** Date Received: 10/31/23 10:00 Percent Solids: 93.2

Sample Depth: 0 - 1

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000411	U	0.00214	0.000411	mg/Kg	*	11/02/23 15:23	11/03/23 14:44	1
Toluene	<0.000487	U	0.00214	0.000487	mg/Kg	☼	11/02/23 15:23	11/03/23 14:44	1
Ethylbenzene	0.000643	J	0.00214	0.000604	mg/Kg	₩	11/02/23 15:23	11/03/23 14:44	1
m-Xylene & p-Xylene	<0.00108	U	0.00427	0.00108	mg/Kg	₩	11/02/23 15:23	11/03/23 14:44	1
o-Xylene	< 0.000367	U	0.00214	0.000367	mg/Kg	₩	11/02/23 15:23	11/03/23 14:44	1
Xylenes, Total	<0.00108	U	0.00427	0.00108	mg/Kg	☼	11/02/23 15:23	11/03/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/02/23 15:23	11/03/23 14:44	1

70 - 130

109

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.9	U	53.1	15.9	mg/Kg	‡	11/01/23 14:49	11/02/23 14:47	1
Diesel Range Organics (Over C10-C28)	18.6	JB	53.1	15.9	mg/Kg	₩	11/01/23 14:49	11/02/23 14:47	1
Oll Range Organics (Over C28-C36)	<15.9	U	53.1	15.9	mg/Kg	₩	11/01/23 14:49	11/02/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/01/23 14:49	11/02/23 14:47	1
o-Terphenyl	90		70 - 130				11/01/23 14:49	11/02/23 14:47	1

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	- Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	F1	4.98	0.393	mg/Kg			11/04/23 11:48	1

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

Client Sample ID: BH-18 1-2'

Date Collected: 10/30/23 16:31 Date Received: 10/31/23 10:00

Sample Depth: 1 - 2

Lab Sample ID: 820-10710-10

11/01/23 14:49 11/02/23 15:09

Matrix: Solid

Percent Solids: 95.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000405	U	0.00210	0.000405	mg/Kg		11/02/23 15:23	11/03/23 15:04	1
Toluene	< 0.000479	U	0.00210	0.000479	mg/Kg	₩	11/02/23 15:23	11/03/23 15:04	1
Ethylbenzene	0.000815	J	0.00210	0.000594	mg/Kg	₩	11/02/23 15:23	11/03/23 15:04	1
m-Xylene & p-Xylene	<0.00106	U	0.00420	0.00106	mg/Kg	₩	11/02/23 15:23	11/03/23 15:04	1
o-Xylene	0.000671	J	0.00210	0.000361	mg/Kg	₩	11/02/23 15:23	11/03/23 15:04	1
Xylenes, Total	<0.00106	U	0.00420	0.00106	mg/Kg	≎	11/02/23 15:23	11/03/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/02/23 15:23	11/03/23 15:04	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/02/23 15:23	11/03/23 15:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit **Prepared** Analyzed Dil Fac Gasoline Range Organics <15.9 U 53.0 15.9 mg/Kg 11/01/23 14:49 11/02/23 15:09 (GRO)-C6-C10 **Diesel Range Organics (Over** 53.0 15.9 mg/Kg 11/01/23 14:49 11/02/23 15:09 31.9 JB C10-C28) Oll Range Organics (Over C28-C36) <15.9 U 53.0 15.9 mg/Kg 11/01/23 14:49 11/02/23 15:09 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 94 70 - 130 11/01/23 14:49 11/02/23 15:09

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.02	0.397	mg/Kg			11/04/23 12:08	1

70 - 130

95

Client Sample ID: BH-19 0-1' Lab Sample ID: 820-10710-11 Date Collected: 10/30/23 10:46 **Matrix: Solid** Percent Solids: 96.0 Date Received: 10/31/23 10:00

Sample Depth: 0 - 1

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000399	U	0.00208	0.000399	mg/Kg	*	11/02/23 15:23	11/03/23 17:10	1
Toluene	< 0.000473	U	0.00208	0.000473	mg/Kg	₩	11/02/23 15:23	11/03/23 17:10	1
Ethylbenzene	<0.000586	U	0.00208	0.000586	mg/Kg	₩	11/02/23 15:23	11/03/23 17:10	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	₩	11/02/23 15:23	11/03/23 17:10	1
o-Xylene	< 0.000357	U	0.00208	0.000357	mg/Kg	₩	11/02/23 15:23	11/03/23 17:10	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	≎	11/02/23 15:23	11/03/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				11/02/23 15:23	11/03/23 17:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/02/23 15:23	11/03/23 17:10	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.7	U	52.2	15.7	mg/Kg		11/01/23 14:49	11/02/23 15:53	1
Diesel Range Organics (Over C10-C28)	<15.7	U	52.2	15.7	mg/Kg	₩	11/01/23 14:49	11/02/23 15:53	1

SDG: 335-562

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H

Client Sample ID: BH-19 0-1' Lab Sample ID: 820-10710-11

Date Collected: 10/30/23 10:46 **Matrix: Solid** Date Received: 10/31/23 10:00 Percent Solids: 96.0

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.7	U	52.2	15.7	mg/Kg	<u></u>	11/01/23 14:49	11/02/23 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/01/23 14:49	11/02/23 15:53	1
o-Terphenyl	90		70 - 130				11/01/23 14:49	11/02/23 15:53	1

Analyte Result Qualifier RL MDL Unit Analyzed Prepared Dil Fac 4.95 Chloride 156 0.391 mg/Kg 11/04/23 12:14

Client Sample ID: BH-19 2-3' Lab Sample ID: 820-10710-12

Date Collected: 10/30/23 10:50 **Matrix: Solid** Date Received: 10/31/23 10:00 Percent Solids: 95.6

Sample Depth: 2 - 3

1,4-Difluorobenzene (Surr)

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000404	U	0.00210	0.000404	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 17:30	1
Toluene	< 0.000479	U	0.00210	0.000479	mg/Kg	₩	11/02/23 15:23	11/03/23 17:30	1
Ethylbenzene	< 0.000594	U	0.00210	0.000594	mg/Kg	₩	11/02/23 15:23	11/03/23 17:30	1
m-Xylene & p-Xylene	<0.00106	U	0.00420	0.00106	mg/Kg	₩	11/02/23 15:23	11/03/23 17:30	1
o-Xylene	< 0.000361	U	0.00210	0.000361	mg/Kg	₩	11/02/23 15:23	11/03/23 17:30	1
Xylenes, Total	<0.00106	U	0.00420	0.00106	mg/Kg	☼	11/02/23 15:23	11/03/23 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				11/02/23 15:23	11/03/23 17:30	1

70 - 130

108

300

Resuit	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<15.8	U	52.8	15.8	mg/Kg	*	11/01/23 14:49	11/02/23 16:15	1
66.1	В	52.8	15.8	mg/Kg	₩	11/01/23 14:49	11/02/23 16:15	1
26.2	J	52.8	15.8	mg/Kg	₩	11/01/23 14:49	11/02/23 16:15	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
92		70 - 130				11/01/23 14:49	11/02/23 16:15	1
92		70 - 130				11/01/23 14:49	11/02/23 16:15	1
	<15.8 66.1 26.2 %Recovery 92	<15.8 U 66.1 B 26.2 J %Recovery 92 Qualifier	<15.8 U 52.8 66.1 B 52.8 26.2 J 52.8 %Recovery Qualifier Limits 92 70-130	<15.8 U 52.8 15.8 66.1 B 52.8 15.8 26.2 J 52.8 15.8 %Recovery Qualifier Limits 92 70 - 130	<15.8 U 52.8 15.8 mg/Kg 66.1 B 52.8 15.8 mg/Kg 26.2 J 52.8 15.8 mg/Kg 15.8 mg/Kg WRecovery Qualifier Limits 70 - 130	<15.8 U	<15.8 U	<15.8 U

4.97

0.393 mg/Kg

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11/04/23 12:21

11/02/23 15:23 11/03/23 17:30

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

Client Sample ID: BH-20 0-1'

Date Collected: 10/30/23 11:05 Date Received: 10/31/23 10:00

Sample Depth: 0 - 1

o-Terphenyl

Lab Sample ID: 820-10710-13

11/01/23 14:49 11/02/23 16:37

Matrix: Solid

Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	<u></u>	11/02/23 15:23	11/03/23 17:51	1
Toluene	< 0.000472	U	0.00207	0.000472	mg/Kg	₩	11/02/23 15:23	11/03/23 17:51	1
Ethylbenzene	<0.000584	U	0.00207	0.000584	mg/Kg	₩	11/02/23 15:23	11/03/23 17:51	1
m-Xylene & p-Xylene	<0.00104	U	0.00414	0.00104	mg/Kg	₩	11/02/23 15:23	11/03/23 17:51	1
o-Xylene	< 0.000356	U	0.00207	0.000356	mg/Kg	₩	11/02/23 15:23	11/03/23 17:51	1
Xylenes, Total	<0.00104	U	0.00414	0.00104	mg/Kg	☼	11/02/23 15:23	11/03/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/02/23 15:23	11/03/23 17:51	1
1.4-Difluorobenzene (Surr)	116		70 - 130				11/02/23 15:23	11/03/23 17:51	1

Method: SW846 8015B NM - I	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.7	U	52.2	15.7	mg/Kg	₩	11/01/23 14:49	11/02/23 16:37	1
Diesel Range Organics (Over C10-C28)	21.9	JB	52.2	15.7	mg/Kg	₩	11/01/23 14:49	11/02/23 16:37	1
Oll Range Organics (Over C28-C36)	<15.7	U	52.2	15.7	mg/Kg	₩	11/01/23 14:49	11/02/23 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/01/23 14:49	11/02/23 16:37	1

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		4.97	0.393	mg/Kg			11/04/23 12:28	1

70 - 130

93

Client Sample ID: BH-20 1-2' Lab Sample ID: 820-10710-14 Date Collected: 10/30/23 11:08 **Matrix: Solid** Date Received: 10/31/23 10:00 Percent Solids: 95.1 Sample Depth: 1 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000406	U	0.00211	0.000406	mg/Kg	☆	11/02/23 15:23	11/03/23 18:11	1
Toluene	<0.000481	U	0.00211	0.000481	mg/Kg	₩	11/02/23 15:23	11/03/23 18:11	1
Ethylbenzene	< 0.000597	U	0.00211	0.000597	mg/Kg	₩	11/02/23 15:23	11/03/23 18:11	1
m-Xylene & p-Xylene	<0.00107	U	0.00422	0.00107	mg/Kg	₩	11/02/23 15:23	11/03/23 18:11	1
o-Xylene	< 0.000363	U	0.00211	0.000363	mg/Kg	₩	11/02/23 15:23	11/03/23 18:11	1
Xylenes, Total	<0.00107	U	0.00422	0.00107	mg/Kg	₩	11/02/23 15:23	11/03/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/02/23 15:23	11/03/23 18:11	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/02/23 15:23	11/03/23 18:11	1

Method: SW846 8015B NM - I	Diesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.8	U	52.6	15.8	mg/Kg	-	11/01/23 14:49	11/02/23 16:59	1
Diesel Range Organics (Over C10-C28)	25.4	JB	52.6	15.8	mg/Kg	₩	11/01/23 14:49	11/02/23 16:59	1

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11/7/2023 (Rev. 1)

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Client Sample ID: BH-20 1-2' Date Collected: 10/30/23 11:08

Lab Sample ID: 820-10710-14

Matrix: Solid

Date Received: 10/31/23 10:00

Percent Solids: 95.1

Sample Depth: 1 - 2

Method: SW846 8015B NM - I	Diesel Range	Organics	s (DRO) (GC)	(Continu	ued)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.8	U	52.6	15.8	mg/Kg	<u></u>	11/01/23 14:49	11/02/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/01/23 14:49	11/02/23 16:59	1
o-Terphenyl	90		70 - 130				11/01/23 14:49	11/02/23 16:59	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	- Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		5.01	0.396	mg/Kg			11/04/23 13:12	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Per	cent Surrogate Recov
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-10710-1	BH-14 1-2'	91	101	
820-10710-1 MS	BH-14 1-2'	114	104	
820-10710-1 MSD	BH-14 1-2'	106	100	
820-10710-2	BH-14 2-3'	89	106	
820-10710-3	BH-15 0-1'	90	99	
820-10710-4	BH-15 3-4'	102	103	
820-10710-5	BH-16 0-1'	99	111	
820-10710-6	BH-16 3-4'	96	111	
820-10710-7	BH-17 0-1'	96	102	
820-10710-8	BH-17 3-4'	105	103	
820-10710-9	BH-18 0-1'	96	109	
820-10710-10	BH-18 1-2'	114	112	
820-10710-11	BH-19 0-1'	82	99	
820-10710-12	BH-19 2-3'	91	108	
820-10710-13	BH-20 0-1'	106	116	
820-10710-14	BH-20 1-2'	110	109	
LCS 880-66099/1-A	Lab Control Sample	94	98	
LCSD 880-66099/2-A	Lab Control Sample Dup	111	114	
MB 880-66099/5-A	Method Blank	107	132 S1+	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-10710-1	BH-14 1-2'	86	88	
820-10710-1 MS	BH-14 1-2'	89	84	
820-10710-1 MSD	BH-14 1-2'	93	86	
820-10710-2	BH-14 2-3'	95	96	
820-10710-3	BH-15 0-1'	96	96	
820-10710-4	BH-15 3-4'	96	97	
820-10710-5	BH-16 0-1'	100	104	
820-10710-6	BH-16 3-4'	97	98	
820-10710-7	BH-17 0-1'	93	94	
820-10710-8	BH-17 3-4'	93	94	
820-10710-9	BH-18 0-1'	89	90	
820-10710-10	BH-18 1-2'	94	95	
820-10710-11	BH-19 0-1'	90	90	
820-10710-12	BH-19 2-3'	92	92	
820-10710-13	BH-20 0-1'	91	93	
820-10710-14	BH-20 1-2'	88	90	
LCS 880-65997/2-A	Lab Control Sample	93	105	
LCSD 880-65997/3-A	Lab Control Sample Dup	89	95	
MB 880-65997/1-A	Method Blank	141 S1+	140 S1+	

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Surrogate Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 820-10710-1 SDG: 335-562

QC Sample Results

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66099/5-A

Lab Sample ID: LCS 880-66099/1-A

Matrix: Solid

Analysis Batch: 66131

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 66099

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Toluene	< 0.000456	U	0.00200	0.000456	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Ethylbenzene	< 0.000565	U	0.00200	0.000565	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		11/02/23 15:23	11/03/23 11:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/02/23 15:23	11/03/23 11:31	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	11/02/23 15:23	11/03/23 11:31	1

Client Sample ID: Lab Control Sample

Prep Batch: 66099

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 66131** Prep Batch: 66099 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Benzene 95 70 - 130 0.100 0.09472 mg/Kg Toluene mg/Kg 70 - 130 0.100 0.08916 89 Ethylbenzene 0.100 0.08943 mg/Kg 89 70 - 130 90 m-Xylene & p-Xylene 0.200 0.1799 mg/Kg 70 - 130 o-Xylene 0.100 0.08528 85 70 - 130 mg/Kg

LCS LCS

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCSD 880-66099/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 66131

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1093		mg/Kg		109	70 - 130	14	35	
Toluene	0.100	0.08697		mg/Kg		87	70 - 130	2	35	
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	12	35	
m-Xylene & p-Xylene	0.200	0.2185		mg/Kg		109	70 - 130	19	35	
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	16	35	

LCSD LCSD

<0.000489 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: 820-10710-1 MS

Toluene

Matrix: Solid Analysis Batch: 66131										pe: Total/NA Batch: 66099
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000413	U	0.108	0.1022		mg/Kg	<u></u>	95	70 - 130	

0.08952

mg/Kg

Eurofins Lubbock

Client Sample ID: BH-14 1-2'

70 - 130

83

0.108

QC Sample Results

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-10710-1 MS

Matrix: Solid

Analysis Batch: 66131

Client Sample	ID: BH-14 1-2'
Prep 1	Type: Total/NA

Prep Batch: 66099

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.000606	U	0.108	0.09333		mg/Kg	<u></u>	87	70 - 130	
m-Xylene & p-Xylene	<0.00108	U	0.216	0.1828		mg/Kg	₩	85	70 - 130	
o-Xylene	0.000473	J	0.108	0.09787		mg/Kg	≎	90	70 - 130	

MS MS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client Sample ID: BH-14 1-2'

Prep Type: Total/NA

Prep Batch: 66099

Matrix: Solid

Lab Sample ID: 820-10710-1 MSD

Analysis Batch: 66131

7 mary or Datom of 10 i											
_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000413	U	0.109	0.1008		mg/Kg	<u></u>	92	70 - 130	1	35
Toluene	<0.000489	U	0.109	0.09277		mg/Kg	☼	85	70 - 130	4	35
Ethylbenzene	<0.000606	U	0.109	0.09704		mg/Kg	☼	89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00108	U	0.218	0.2064		mg/Kg	₩	95	70 - 130	12	35
o-Xylene	0.000473	J	0.109	0.09524		mg/Kg	₩	87	70 - 130	3	35

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65997/1-A

Matrix: Solid

Analysis Batch: 66029

Gasoline Range Organics

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65997

Result Qualifier RL MDL Unit Prepared Analyzed <15.0 U 50.0 15.0 mg/Kg 11/01/23 14:48 11/02/23 08:33 23.39 J 50.0 15.0 mg/Kg 11/01/23 14:48 11/02/23 08:33

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

Analyte

Oll Range Organics (Over C28-C36) <15.0 U 50.0 15.0 mg/Kg 11/01/23 14:48 11/02/23 08:33

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 1-Chlorooctane 141 S1+ 70 - 130 11/01/23 14:48 11/02/23 08:33 140 S1+ 70 - 130 11/01/23 14:48 11/02/23 08:33 o-Terphenyl

Lab Sample ID: LCS 880-65997/2-A

Matrix: Solid

Analysis Batch: 66029

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 65997

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	908.9		mg/Kg		91	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	961.8		mg/Kg		96	70 - 130	
C10-C28)								

Eurofins Lubbock

Dil Fac

Limits

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-65997/2-A

Lab Sample ID: LCSD 880-65997/3-A

Lab Sample ID: 820-10710-1 MS

Matrix: Solid

Analysis Batch: 66029

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65997

Surrogate	%Recovery	Qualifier
	LCS	LCS

1-Chlorooctane 93 70 - 130 o-Terphenyl 105 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 66029

Prep Batch: 65997 %Rec RPD

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 915.4 mg/Kg 92 70 - 130 1 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 951.2 mg/Kg 95 70 - 130 20

C10-C28)

Matrix: Solid

Analysis Batch: 66029

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: BH-14 1-2'

Prep Type: Total/NA

Prep Batch: 65997

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<16.2	U F1	1090	740.2	F1	mg/Kg	— <u></u>	68	70 - 130		
Diesel Range Organics (Over	18.1	JF1B	1090	764.6	F1	mg/Kg	☼	68	70 - 130		

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 820-10710-1 MSD Client Sample ID: BH-14 1-2'

Matrix: Solid

Analysis Batch: 66029

Prep Type: Total/NA Prep Batch: 65997

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Gasoline Range Organics <16.2 U F1 1090 765.6 mg/Kg 70 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over 18.1 JF1B 1090 805.6 mg/Kg ₩ 72 70 - 130 5 20

C10-C28)

MSD	MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	86		70 - 130

Prep Type: Soluble

QC Sample Results

Client: Civil & Environmental Consultants Inc Job ID: 820-10710-1 Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65990/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 66084

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			11/02/23 23:01	1

Lab Sample ID: LCS 880-65990/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66084

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.5		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-65990/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 66084

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	262.9		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-65991/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 66206

MB MB

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395 l	U	5.00	0.395	mg/Kg			11/04/23 11:28	1

Lab Sample ID: LCS 880-65991/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66206

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	253.6		ma/Ka	_	101	90 110	

Lab Sample ID: LCSD 880-65991/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 66206

•	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifie	r Unit I	D %Rec	Limits	RPD	Limit
Chloride	250	254 0	ma/Ka	102	90 110		20

Lab Sample ID: 820-10710-9 MS Client Sample ID: BH-18 0-1'

Matrix: Solid

Analysis Batch: 66206

	Sample S	Sample	Spike	MS	MS				%Rec	
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	107	F1	249	311.3	F1	ma/Ka		82	90 - 110	_

Lab Sample ID: 820-10710-9 MSD Client Sample ID: BH-18 0-1'

Matrix: Solid

Analysis Batch: 66206

Released to Imaging: 10/8/2024 11:19:46 AM

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	107	F1	249	311.7	F1	mg/Kg		82	90 - 110	0	20

Eurofins Lubbock

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1
SDG: 335-562

GC VOA

Prep Batch: 66099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-1	BH-14 1-2'	Total/NA	Solid	5035	
820-10710-2	BH-14 2-3'	Total/NA	Solid	5035	
820-10710-3	BH-15 0-1'	Total/NA	Solid	5035	
820-10710-4	BH-15 3-4'	Total/NA	Solid	5035	
820-10710-5	BH-16 0-1'	Total/NA	Solid	5035	
820-10710-6	BH-16 3-4'	Total/NA	Solid	5035	
820-10710-7	BH-17 0-1'	Total/NA	Solid	5035	
820-10710-8	BH-17 3-4'	Total/NA	Solid	5035	
820-10710-9	BH-18 0-1'	Total/NA	Solid	5035	
820-10710-10	BH-18 1-2'	Total/NA	Solid	5035	
820-10710-11	BH-19 0-1'	Total/NA	Solid	5035	
820-10710-12	BH-19 2-3'	Total/NA	Solid	5035	
820-10710-13	BH-20 0-1'	Total/NA	Solid	5035	
820-10710-14	BH-20 1-2'	Total/NA	Solid	5035	
MB 880-66099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-10710-1 MS	BH-14 1-2'	Total/NA	Solid	5035	
820-10710-1 MSD	BH-14 1-2'	Total/NA	Solid	5035	

Analysis Batch: 66131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-1	BH-14 1-2'	Total/NA	Solid	8021B	66099
820-10710-2	BH-14 2-3'	Total/NA	Solid	8021B	66099
820-10710-3	BH-15 0-1'	Total/NA	Solid	8021B	66099
820-10710-4	BH-15 3-4'	Total/NA	Solid	8021B	66099
820-10710-5	BH-16 0-1'	Total/NA	Solid	8021B	66099
820-10710-6	BH-16 3-4'	Total/NA	Solid	8021B	66099
820-10710-7	BH-17 0-1'	Total/NA	Solid	8021B	66099
820-10710-8	BH-17 3-4'	Total/NA	Solid	8021B	66099
820-10710-9	BH-18 0-1'	Total/NA	Solid	8021B	66099
820-10710-10	BH-18 1-2'	Total/NA	Solid	8021B	66099
820-10710-11	BH-19 0-1'	Total/NA	Solid	8021B	66099
820-10710-12	BH-19 2-3'	Total/NA	Solid	8021B	66099
820-10710-13	BH-20 0-1'	Total/NA	Solid	8021B	66099
820-10710-14	BH-20 1-2'	Total/NA	Solid	8021B	66099
MB 880-66099/5-A	Method Blank	Total/NA	Solid	8021B	66099
LCS 880-66099/1-A	Lab Control Sample	Total/NA	Solid	8021B	66099
LCSD 880-66099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66099
820-10710-1 MS	BH-14 1-2'	Total/NA	Solid	8021B	66099
820-10710-1 MSD	BH-14 1-2'	Total/NA	Solid	8021B	66099

GC Semi VOA

Prep Batch: 65997

Lab Sample ID 820-10710-1	Client Sample ID BH-14 1-2'	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
820-10710-2	BH-14 2-3'	Total/NA	Solid	8015NM Prep	
820-10710-3	BH-15 0-1'	Total/NA	Solid	8015NM Prep	
820-10710-4	BH-15 3-4'	Total/NA	Solid	8015NM Prep	
820-10710-5	BH-16 0-1'	Total/NA	Solid	8015NM Prep	

Eurofins Lubbock

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4.0

4.0

13

14

QC Association Summary

Job ID: 820-10710-1 Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H SDG: 335-562

GC Semi VOA (Continued)

Prep Batch: 65997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-6	BH-16 3-4'	Total/NA	Solid	8015NM Prep	
820-10710-7	BH-17 0-1'	Total/NA	Solid	8015NM Prep	
820-10710-8	BH-17 3-4'	Total/NA	Solid	8015NM Prep	
820-10710-9	BH-18 0-1'	Total/NA	Solid	8015NM Prep	
820-10710-10	BH-18 1-2'	Total/NA	Solid	8015NM Prep	
820-10710-11	BH-19 0-1'	Total/NA	Solid	8015NM Prep	
820-10710-12	BH-19 2-3'	Total/NA	Solid	8015NM Prep	
820-10710-13	BH-20 0-1'	Total/NA	Solid	8015NM Prep	
820-10710-14	BH-20 1-2'	Total/NA	Solid	8015NM Prep	
MB 880-65997/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65997/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65997/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-10710-1 MS	BH-14 1-2'	Total/NA	Solid	8015NM Prep	
820-10710-1 MSD	BH-14 1-2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-1	BH-14 1-2'	Total/NA	Solid	8015B NM	65997
820-10710-2	BH-14 2-3'	Total/NA	Solid	8015B NM	65997
820-10710-3	BH-15 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-4	BH-15 3-4'	Total/NA	Solid	8015B NM	65997
820-10710-5	BH-16 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-6	BH-16 3-4'	Total/NA	Solid	8015B NM	65997
820-10710-7	BH-17 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-8	BH-17 3-4'	Total/NA	Solid	8015B NM	65997
820-10710-9	BH-18 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-10	BH-18 1-2'	Total/NA	Solid	8015B NM	65997
820-10710-11	BH-19 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-12	BH-19 2-3'	Total/NA	Solid	8015B NM	65997
820-10710-13	BH-20 0-1'	Total/NA	Solid	8015B NM	65997
820-10710-14	BH-20 1-2'	Total/NA	Solid	8015B NM	65997
MB 880-65997/1-A	Method Blank	Total/NA	Solid	8015B NM	65997
LCS 880-65997/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65997
LCSD 880-65997/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65997
820-10710-1 MS	BH-14 1-2'	Total/NA	Solid	8015B NM	65997
820-10710-1 MSD	BH-14 1-2'	Total/NA	Solid	8015B NM	65997

HPLC/IC

Leach Batch: 65990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-1	BH-14 1-2'	Soluble	Solid	DI Leach	_
820-10710-2	BH-14 2-3'	Soluble	Solid	DI Leach	
820-10710-3	BH-15 0-1'	Soluble	Solid	DI Leach	
820-10710-4	BH-15 3-4'	Soluble	Solid	DI Leach	
820-10710-5	BH-16 0-1'	Soluble	Solid	DI Leach	
820-10710-6	BH-16 3-4'	Soluble	Solid	DI Leach	
820-10710-7	BH-17 0-1'	Soluble	Solid	DI Leach	
820-10710-8	BH-17 3-4'	Soluble	Solid	DI Leach	
MB 880-65990/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65990/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

HPLC/IC (Continued)

Leach Batch: 65990 (Continued)

Lab Sample ID	le ID Client Sample ID F		Matrix	Method	Prep Batch
LCSD 880-65990/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 65991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-9	BH-18 0-1'	Soluble	Solid	DI Leach	
820-10710-10	BH-18 1-2'	Soluble	Solid	DI Leach	
820-10710-11	BH-19 0-1'	Soluble	Solid	DI Leach	
820-10710-12	BH-19 2-3'	Soluble	Solid	DI Leach	
820-10710-13	BH-20 0-1'	Soluble	Solid	DI Leach	
820-10710-14	BH-20 1-2'	Soluble	Solid	DI Leach	
MB 880-65991/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65991/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65991/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-10710-9 MS	BH-18 0-1'	Soluble	Solid	DI Leach	
820-10710-9 MSD	BH-18 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 66084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-1	BH-14 1-2'	Soluble	Solid	300.0	65990
820-10710-2	BH-14 2-3'	Soluble	Solid	300.0	65990
820-10710-3	BH-15 0-1'	Soluble	Solid	300.0	65990
820-10710-4	BH-15 3-4'	Soluble	Solid	300.0	65990
820-10710-5	BH-16 0-1'	Soluble	Solid	300.0	65990
820-10710-6	BH-16 3-4'	Soluble	Solid	300.0	65990
820-10710-7	BH-17 0-1'	Soluble	Solid	300.0	65990
820-10710-8	BH-17 3-4'	Soluble	Solid	300.0	65990
MB 880-65990/1-A	Method Blank	Soluble	Solid	300.0	65990
LCS 880-65990/2-A	Lab Control Sample	Soluble	Solid	300.0	65990
LCSD 880-65990/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65990

Analysis Batch: 66206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
820-10710-9	BH-18 0-1'	Soluble		300.0	65991	
820-10710-10	BH-18 1-2'	Soluble	Solid	300.0	65991	
820-10710-11	BH-19 0-1'	Soluble	Solid	300.0	65991	
820-10710-12	BH-19 2-3'	Soluble	Solid	300.0	65991	
820-10710-13	BH-20 0-1'	Soluble	Solid	300.0	65991	
820-10710-14	BH-20 1-2'	Soluble	Solid	300.0	65991	
MB 880-65991/1-A	Method Blank	Soluble	Solid	300.0	65991	
LCS 880-65991/2-A	Lab Control Sample	Soluble	Solid	300.0	65991	
LCSD 880-65991/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65991	
820-10710-9 MS	BH-18 0-1'	Soluble	Solid	300.0	65991	
820-10710-9 MSD	BH-18 0-1'	Soluble	Solid	300.0	65991	

General Chemistry

Analysis Batch: 65998

Lab Sample ID 820-10710-1	Client Sample ID BH-14 1-2'	Prep Type Total/NA	Matrix Solid	Method D2216	Prep Batch
820-10710-2	BH-14 2-3'	Total/NA	Solid	D2216	
820-10710-3	BH-15 0-1'	Total/NA	Solid	D2216	

Eurofins Lubbock

11/7/2023 (Rev. 1)

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1
SDG: 335-562

General Chemistry (Continued)

Analysis Batch: 65998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10710-4	BH-15 3-4'	Total/NA	Solid	D2216	
820-10710-5	BH-16 0-1'	Total/NA	Solid	D2216	
820-10710-6	BH-16 3-4'	Total/NA	Solid	D2216	
820-10710-7	BH-17 0-1'	Total/NA	Solid	D2216	
820-10710-8	BH-17 3-4'	Total/NA	Solid	D2216	
820-10710-9	BH-18 0-1'	Total/NA	Solid	D2216	
820-10710-10	BH-18 1-2'	Total/NA	Solid	D2216	
820-10710-11	BH-19 0-1'	Total/NA	Solid	D2216	
820-10710-12	BH-19 2-3'	Total/NA	Solid	D2216	
820-10710-13	BH-20 0-1'	Total/NA	Solid	D2216	
820-10710-14	BH-20 1-2'	Total/NA	Solid	D2216	
MB 880-65998/1	Method Blank	Total/NA	Solid	D2216	
820-10710-1 DU	BH-14 1-2'	Total/NA	Solid	D2216	
820-10710-11 DU	BH-19 0-1'	Total/NA	Solid	D2216	

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Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Lab Sample ID: 820-10710-1

Matrix: Solid

Client Sample ID: BH-14 1-2' Date Collected: 10/30/23 10:22

Date Received: 10/31/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 00:50	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-14 1-2'

Date Collected: 10/30/23 10:22 Date Received: 10/31/23 10:00

Lab Sample ID: 820-10710-1

Matrix: Solid Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 12:00	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 11:07	SM	EET MID

Client Sample ID: BH-14 2-3'

Date Collected: 10/30/23 10:26

Date Received: 10/31/23 10:00

Lab Sample ID: 820-10710-2

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 01:06	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-14 2-3'

Date Collected: 10/30/23 10:26

Date Received: 10/31/23 10:00

Lab Sample	ID: 820-10710-2
	Matrix: Solid

Percent Solids: 93.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 12:20	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 12:14	SM	EET MID

Date Received: 10/31/23 10:00

Total/NA	Analysis	8015B NM	1	1 uL	1 uL	66029	11/02/23 12:14	SM	EET MID
Client Sam	ple ID: BH-	15 0-1'				L	_ab Sample	ID: 82	20-10710-3
Date Collecte	ed: 10/30/23 1	0:30					_	- 1	Matrix: Solid
Data Bassive	d. 40/24/22 4/	0.00							

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	66084	11/03/23 01:12	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-15 0-1'

Project/Site: Seawolf Federal 1-12-91H

Lab Sample ID: 820-10710-3

Matrix: Solid

Date Collected: 10/30/23 10:30 Date Received: 10/31/23 10:00

Percent Solids: 95.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 12:41	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 12:36	SM	EET MID

Lab Sample ID: 820-10710-4

Client Sample ID: BH-15 3-4' Date Collected: 10/30/23 10:34 **Matrix: Solid**

Date Received: 10/31/23 10:00

Batch Batch Dil Initial Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Soluble Leach DI Leach 4.96 g 50 mL 65990 11/01/23 14:23 SMC EET MID Soluble 300.0 50 mL 50 mL 66084 11/03/23 01:17 CH Analysis 5 **EET MID** Total/NA Analysis D2216 1 65998 11/02/23 13:14 SMC **EET MID**

Client Sample ID: BH-15 3-4' Lab Sample ID: 820-10710-4 Date Collected: 10/30/23 10:34 **Matrix: Solid**

Date Received: 10/31/23 10:00 Percent Solids: 90.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 13:01	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 12:58	SM	EET MID

Client Sample ID: BH-16 0-1' Lab Sample ID: 820-10710-5 Date Collected: 10/30/23 10:38 **Matrix: Solid**

Date Received: 10/31/23 10:00

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 01:22	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Lab Sample ID: 820-10710-5 Client Sample ID: BH-16 0-1'

Date Collected: 10/30/23 10:38 **Matrix: Solid** Date Received: 10/31/23 10:00 Percent Solids: 88.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 13:22	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 13:20	SM	EET MID

Job ID: 820-10710-1

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

SDG: 335-562

Lab Sample ID: 820-10710-6

Matrix: Solid

Client Sample ID: BH-16 3-4' Date Collected: 10/30/23 10:42

Date Received: 10/31/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 01:27	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-16 3-4'

Date Collected: 10/30/23 10:42

Date Received: 10/31/23 10:00

Lab Sample	ID: 820-10	710-6
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Matrix: Solid Percent Solids: 88.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 13:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 13:41	SM	EET MID

Client Sample ID: BH-17 0-1'

Date Collected: 10/30/23 16:37

Lab Sample ID: 820-10710-7

Matrix: Solid

Date Received: 10/31/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 01:32	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-17 0-1'

Date Collected: 10/30/23 16:37

Date Received: 10/31/23 10:00

Lab Sample	ID: 820-10710-7
	Matrix: Solid

Percent Solids: 95.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 14:03	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 14:04	SM	EET MID

Client Sample ID: BH-17 3-4'

Date Collected: 10/30/23 16:40

Date Received: 10/31/23 10:00

Lab	Sample	ID:	820-10710-8
			Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	65990	11/01/23 14:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66084	11/03/23 01:38	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client: Civil & Environmental Consultants Inc

Job ID: 820-10710-1

11/02/23 13:14 SMC

65998

SDG: 335-562

Client Sample ID: BH-17 3-4'

Project/Site: Seawolf Federal 1-12-91H

Date Collected: 10/30/23 16:40

Lab Sample ID: 820-10710-8

Matrix: Solid

EET MID

Matrix: Solid

Date Received: 10/31/23 10:00 Percent Solids: 93.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 14:23	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 14:25	SM	EET MID

Client Sample ID: BH-18 0-1' Lab Sample ID: 820-10710-9 Date Collected: 10/30/23 16:28 **Matrix: Solid**

Date Received: 10/31/23 10:00

Analysis

D2216

Total/NA

Batch Batch Dil Initial Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Soluble Leach DI Leach 5.02 g 50 mL 65991 11/01/23 14:25 SMC EET MID Soluble 300.0 66206 11/04/23 11:48 CH Analysis **EET MID** 1

Client Sample ID: BH-18 0-1' Lab Sample ID: 820-10710-9 Date Collected: 10/30/23 16:28 Matrix: Solid

1

Date Received: 10/31/23 10:00 Percent Solids: 93.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 14:44	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 14:47	SM	EET MID

Client Sample ID: BH-18 1-2' Lab Sample ID: 820-10710-10

Date Collected: 10/30/23 16:31 Date Received: 10/31/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 12:08	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Lab Sample ID: 820-10710-10 Client Sample ID: BH-18 1-2'

Date Collected: 10/30/23 16:31 Matrix: Solid Date Received: 10/31/23 10:00 Percent Solids: 95.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 15:04	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 15:09	SM	EET MID

Client: Civil & Environmental Consultants Inc

Job ID: 820-10710-1

Lab Sample ID: 820-10710-11

Lab Sample ID: 820-10710-11

Lab Sample ID: 820-10710-12

Lab Sample ID: 820-10710-12

11/02/23 16:15 SM

Matrix: Solid

Matrix: Solid

EET MID

Percent Solids: 95.6

Matrix: Solid

SDG: 335-562

Client Sample ID: BH-19 0-1' Date Collected: 10/30/23 10:46

Project/Site: Seawolf Federal 1-12-91H

Date Received: 10/31/23 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 12:14	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-19 0-1'

Date Collected: 10/30/23 10:46

Matrix: Solid Date Received: 10/31/23 10:00 Percent Solids: 96.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 17:10	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 15:53	SM	EET MID

Client Sample ID: BH-19 2-3'

Date Collected: 10/30/23 10:50

Date Received: 10/31/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 12:21	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-19 2-3' Date Collected: 10/30/23 10:50

8015B NM

Date Received: 10/31/23 10:00

Date Receive	u. 10/01/20 1	0.00						<u> </u>	CI CCIIIC C	701143. 00.0
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 17:30	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.91 a	10 mL	65997	11/01/23 14:49	TKC	EET MID

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Analysis

Total/NA

Client Sample ID: BH-20 0-1'	Lab Sample ID: 820-10710-13
Date Collected: 10/30/23 11:05	Matrix: Solid
Date Received: 10/31/23 10:00	

1 uL

1 uL

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 12:28	CH	EET MID
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

Lab Sample ID: 820-10710-13

Matrix: Solid

Percent Solids: 95.7

Client Sample ID: BH-20 0-1' Date Collected: 10/30/23 11:05

Date Received: 10/31/23 10:00

Batch Batch Batch Dil Initial Final Prepared Method Factor **Prep Type** Type Run **Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 66099 EET MID Prep 5.05 g 5 mL 11/02/23 15:23 EL Total/NA 8021B 66131 Analysis 1 5 mL 5 mL 11/03/23 17:51 MNR EET MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 65997 11/01/23 14:49 TKC **EET MID** Total/NA Analysis 8015B NM 1 1 uL 1 uL 66029 11/02/23 16:37 SM **EET MID**

Client Sample ID: BH-20 1-2' Lab Sample ID: 820-10710-14 Date Collected: 10/30/23 11:08 **Matrix: Solid**

Date Received: 10/31/23 10:00

Dil Batch Batch Initial Final Batch Prepared Method **Factor Amount** Amount Number or Analyzed Analyst **Prep Type** Type Run Lab Soluble Leach DI Leach 4.99 g 50 mL 65991 11/01/23 14:25 SMC EET MID Soluble 300.0 Analysis 66206 11/04/23 13:12 CH **EET MID** 1 Total/NA Analysis D2216 1 65998 11/02/23 13:14 SMC **EET MID**

Client Sample ID: BH-20 1-2' Lab Sample ID: 820-10710-14 Date Collected: 10/30/23 11:08 **Matrix: Solid**

Date Received: 10/31/23 10:00 Percent Solids: 95.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 18:11	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 16:59	SM	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1 SDG: 335-562

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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4.0

13

Method Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Lubbock

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10

Sample Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf Federal 1-12-91H

Job ID: 820-10710-1

SDG: 335-562

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-10710-1	BH-14 1-2'	Solid	10/30/23 10:22	10/31/23 10:00	1 - 2
820-10710-2	BH-14 2-3'	Solid	10/30/23 10:26	10/31/23 10:00	2 - 3
820-10710-3	BH-15 0-1'	Solid	10/30/23 10:30	10/31/23 10:00	0 - 1
820-10710-4	BH-15 3-4'	Solid	10/30/23 10:34	10/31/23 10:00	3 - 4
820-10710-5	BH-16 0-1'	Solid	10/30/23 10:38	10/31/23 10:00	0 - 1
820-10710-6	BH-16 3-4'	Solid	10/30/23 10:42	10/31/23 10:00	3 - 4
820-10710-7	BH-17 0-1'	Solid	10/30/23 16:37	10/31/23 10:00	0 - 1
820-10710-8	BH-17 3-4'	Solid	10/30/23 16:40	10/31/23 10:00	3 - 4
820-10710-9	BH-18 0-1'	Solid	10/30/23 16:28	10/31/23 10:00	0 - 1
820-10710-10	BH-18 1-2'	Solid	10/30/23 16:31	10/31/23 10:00	1 - 2
820-10710-11	BH-19 0-1'	Solid	10/30/23 10:46	10/31/23 10:00	0 - 1
820-10710-12	BH-19 2-3'	Solid	10/30/23 10:50	10/31/23 10:00	2 - 3
820-10710-13	BH-20 0-1'	Solid	10/30/23 11:05	10/31/23 10:00	0 - 1
820-10710-14	BH-20 1-2'	Solid	10/30/23 11:08	10/31/23 10:00	1 - 2

Loc: 820 10710

urofins

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Little Rock, AR (501) 224-5060



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Project Manager:	LA	PA CA	MPDE	IL.		Bill to: (I	f differer	nt)		C	Evo	N					Work Order Comments							
Company Name:	CR					Compa	ny Nam	θ:									Prog	am: U	ST/PS	r 🗌 P	RP[Brow	nfields 🗌 RRC 📗 Su	perfund 🗌
Address:	700	CHER	RINC	MOTO	P EWN	Address	3:											of Pro	•					
City, State ZIP:		J Tuk				City, Sta	ate ZIP:										Reporting: Level II Level III PST/UST TRRP Level IV							Level IV
Phone:					Emai	: LC	MAR	eu C) ce	CINC	101	\					Deliv	erables	: EDD	K		ADaP	T Other:	
Project Name:	GANN	z Feselv	v. 1-17	2-911	Tui	n Around			T					ANA	LYSIS	REQ	UES1						Preservative C	odes
Project Number:		5-562		-	Routine			Pres.		T	Τ	T		T									None: NO DI V	Vater: H₂O
Project Location:		4.CO,			Due Date			1															Cool: Cool MeC	DH: Me
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SAMPLE RECE	IPT	Temp B	lank:	Yes	Wet Ice:		No	age .		1 .52			90 - 97										H₃PO₄: HP	
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Cooler Custody Sea		Yes No			on Factor:	70.		-	1/E	3													Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zr	
Sample Custody Ser	als:	Yes No	(N/X		ature Reading: ed Temperature			-{	12/8	े डि	6248021		MASICE &										NaOH+Ascorbic Acid:	
Total Containers:		7	Г			. 3.	Grab/	# of	1	\ \sqrt{\sq}\sqrt{\sq}}}}}}}}}\eqiintite{\sintitex{\sintitita}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	NA AN		হী											
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Notice: Signature of this	document	t and relingu	ishment	of samples	constitutes a valid	d purchase o	order from	n client	compa	ny to Eu	rofins :	Xenco,	its affilia	tes and s	subcontr	actors.	It assig	ns stan	lard ter	me and	i conditi	lons		

Received by: (Signature) Date/Time Date/Time Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) 100 1031 130 100

of service. Eurofins Xenco will be Hable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Revised Date: 08/25/2020 Rev. 2020.2



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Received by OCD: 8/20/2024 10:25:13 AM

11/7/2023 (Rev. 1)

🔅 eurofins

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Little Rock, AR (501) 224-5060

Work Order No:	10710
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Project Manager:			Bill to: (if different)								Work Order Comments													
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Project Name:				Tur	n Around								ANA	LYSIS	REC	QUES	ST .					Prese	rvative Code	B
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SAMPLE RECEIP		Blank:	Yes 😡	Wet Ice:	(reg	No	Parameters	0320030	八六		, (H₃PO₄: HP		
Samples Received Inta	ot: (Yes)	No	Thermomet	ter ID:	112-	1		2			30,92						ŀ				1	NaHSO₄: N	ABIS	
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Revised Date: 08/25/2020 Rev. 2020.2

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Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 820-10710-1

SDG Number: 335-562

Login Number: 10710 **List Source: Eurofins Lubbock**

List Number: 1

Creator: Lee, Randell

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 10/8/2024 11:19:46 AM

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 820-10710-1

SDG Number: 335-562

Login Number: 10710 **List Source: Eurofins Midland** List Creation: 11/01/23 12:57 PM List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell Civil & Environmental Consultants Inc 700 Cherrington Parkway Moon Township, Pennsylvania 15108

Generated 2/15/2024 1:55:59 PM Revision 1

JOB DESCRIPTION

Seawolf 112 91H-On

JOB NUMBER

820-11924-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424

Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All guestions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by Travis Richter, Project Manager Travis.Richter@et.eurofinsus.com (281)794-7216

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Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 91H-On Laboratory Job ID: 820-11924-1

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc

Qualifier Description

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Qualifiers

00	14		Α.
GC	V	U	А

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

HPLC/IC	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
S1+	Surrogate recovery exceeds control limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
В	Compound was found in the blank and sample.
	·

Qualifier

Qualifier

Qualifiei	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDI	Estimated Detection Limit (Diavin)

EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

WICL	LI A recommended Maximum Contaminant Level
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDI	Method Detection Limit

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NEG	Negative / Absent
POS	Positive / Present
POI	Practical Quantitation

PQL	Practica	ıl Quantitation	Limit

PRES	Presumptive
QC	Quality Control

RL	Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Lubbock

Case Narrative

Client: Civil & Environmental Consultants Inc

Project: Seawolf 112 91H-On

Job ID: 820-11924-1

Job Narrative 820-11924-1

REVISION

The report being provided is a revision of the original report sent on 2/14/2024. The report (revision 1) is being revised due to Client wanted a reanalysis performed to confirm DRO result..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/2/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and. where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.3°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Seawolf 91H-9-7-23 Sidewall 1 (820-11924-1), Seawolf 91H-9-7-23 Sidewall 2 (820-11924-2), Seawolf 91H-9-7-23 Sidewall 3 (820-11924-3), Seawolf 91H-9-7-23 Sidewall 4 (820-11924-4), Seawolf 91H-9-7-23 Bottom 1 (820-11924-5), Seawolf 91H-9-7-23 Bottom 2 (820-11924-6), Seawolf 91H-9-7-23 Bottom 3 (820-11924-7), Seawolf 91H-9-7-23 Bottom 4 (820-11924-8), Seawolf 91H-9-7-23 Bottom 5 (820-11924-9), Seawolf 91H-9-7-23 Bottom 6 (820-11924-10), Seawolf 91H-9-7-23 Bottom 7 (820-11924-11), Seawolf 91H-9-7-23 Bottom 8 (820-11924-12), Seawolf 91H-9-7-23 Bottom 9 (820-11924-13), Seawolf 91H-9-7-23 Bottom 10 (820-11924-14), Seawolf 91H-9-7-23 Bottom 11 (820-11924-15), Seawolf 91H-9-7-23 Bottom 12 (820-11924-16), Seawolf 91H-9-7-23 Bottom 13 (820-11924-17), Seawolf 91H-9-7-23 Bottom 14 (820-11924-18), Seawolf 91H-9-7-23 Bottom 15 (820-11924-19), Seawolf 91H-9-7-23 Bottom 16 (820-11924-20) and Seawolf 91H-9-7-23 Bottom 17 (820-11924-21).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-72659 and analytical batch 880-72586 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-72601 and analytical batch 880-72824 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: Seawolf 91H-9-7-23 Bottom 7 (820-11924-11) and Seawolf 91H-9-7-23 Bottom 8 (820-11924-12). Evidence of matrix interference is present; therefore, reextraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72824 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72824/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-72383 and 880-72384 and analytical batch 880-72441 was outside the upper control limits.

Case Narrative

Client: Civil & Environmental Consultants Inc

Project: Seawolf 112 91H-On

Job ID: 820-11924-1 (Continued)

Job ID: 820-11924-1

Eurofins Lubbock

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Seawolf 91H-9-7-23 Sidewall 1 (820-11924-1), Seawolf 91H-9-7-23 Sidewall 2 (820-11924-2), Seawolf 91H-9-7-23 Sidewall 3 (820-11924-3), Seawolf 91H-9-7-23 Sidewall 4 (820-11924-4), Seawolf 91H-9-7-23 Bottom 1 (820-11924-5), Seawolf 91H-9-7-23 Bottom 2 (820-11924-6), Seawolf 91H-9-7-23 Bottom 3 (820-11924-7), Seawolf 91H-9-7-23 Bottom 4 (820-11924-8), Seawolf 91H-9-7-23 Bottom 5 (820-11924-9), Seawolf 91H-9-7-23 Bottom 6 (820-11924-10), Seawolf 91H-9-7-23 Bottom 7 (820-11924-11), Seawolf 91H-9-7-23 Bottom 8 (820-11924-12), Seawolf 91H-9-7-23 Bottom 9 (820-11924-13), Seawolf 91H-9-7-23 Bottom 10 (820-11924-14), Seawolf 91H-9-7-23 Bottom 11 (820-11924-15), Seawolf 91H-9-7-23 Bottom 12 (820-11924-16), Seawolf 91H-9-7-23 Bottom 13 (820-11924-17), Seawolf 91H-9-7-23 Bottom 14 (820-11924-18), Seawolf 91H-9-7-23 Bottom 15 (820-11924-19), Seawolf 91H-9-7-23 Bottom 16 (820-11924-20), Seawolf 91H-9-7-23 Bottom 17 (820-11924-21), (820-11924-A-1-E MS) and (820-11924-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-72383 and 880-72384 and analytical batch 880-72441 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72343 and analytical batch 880-72615 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-72343 and analytical batch 880-72615 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-72365 and analytical batch 880-72452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lubbock

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1 Lab Sample ID: 820-11924-1

Date Collected: 01/31/24 19:37

Matrix: Solid

Date Received: 02/02/24 10:11 Percent Solids: 71.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000538	U	0.00279	0.000538	mg/Kg	<u></u>	02/07/24 16:52	02/11/24 19:01	1
Toluene	< 0.000637	U	0.00279	0.000637	mg/Kg	₩	02/07/24 16:52	02/11/24 19:01	1
Ethylbenzene	<0.000789	U *+	0.00279	0.000789	mg/Kg	₩	02/07/24 16:52	02/11/24 19:01	1
m-Xylene & p-Xylene	<0.00141	U *+	0.00558	0.00141	mg/Kg	₩	02/07/24 16:52	02/11/24 19:01	1
o-Xylene	<0.000480	U *+	0.00279	0.000480	mg/Kg	₩	02/07/24 16:52	02/11/24 19:01	1
Xylenes, Total	<0.00141	U *+	0.00558	0.00141	mg/Kg	₽	02/07/24 16:52	02/11/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				02/07/24 16:52	02/11/24 19:01	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/07/24 16:52	02/11/24 19:01	1

 Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<20.8	U	69.3	20.8	mg/Kg	*	02/05/24 13:47	02/06/24 23:28	1
Diesel Range Organics (Over C10-C28)	253	В	69.3	20.8	mg/Kg	₩	02/05/24 13:47	02/06/24 23:28	1
Oll Range Organics (Over C28-C36)	<20.8	U	69.3	20.8	mg/Kg	₩	02/05/24 13:47	02/06/24 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				02/05/24 13:47	02/06/24 23:28	1
o-Terphenyl	126		70 - 130				02/05/24 13:47	02/06/24 23:28	1

Method: EPA 300.0 - Anions, los	n Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	959	F1	5.02	0.397	mg/Kg			02/06/24 11:42	1

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 2

Date Collected: 01/31/24 19:38

Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-2

Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000469	U	0.00244	0.000469	mg/Kg	*	02/07/24 16:52	02/11/24 19:22	1
Toluene	< 0.000555	U	0.00244	0.000555	mg/Kg	₩	02/07/24 16:52	02/11/24 19:22	1
Ethylbenzene	<0.000688	U *+	0.00244	0.000688	mg/Kg	₩	02/07/24 16:52	02/11/24 19:22	1
m-Xylene & p-Xylene	<0.00123	U *+	0.00487	0.00123	mg/Kg	₩	02/07/24 16:52	02/11/24 19:22	1
o-Xylene	< 0.000419	U *+	0.00244	0.000419	mg/Kg	₩	02/07/24 16:52	02/11/24 19:22	1
Xylenes, Total	<0.00123	U *+	0.00487	0.00123	mg/Kg	₩	02/07/24 16:52	02/11/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				02/07/24 16:52	02/11/24 19:22	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/07/24 16:52	02/11/24 19:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.9	J	61.7	18.5	mg/Kg	*	02/05/24 13:47	02/07/24 00:32	1
Diesel Range Organics (Over C10-C28)	30.2	JB	61.7	18.5	mg/Kg	₩	02/05/24 13:47	02/07/24 00:32	1
Oll Range Organics (Over C28-C36)	<18.5	U	61.7	18.5	mg/Kg	≎	02/05/24 13:47	02/07/24 00:32	1

Eurofins Lubbock

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Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 2 Lab Sample ID: 820-11924-2

Date Collected: 01/31/24 19:38

Matrix: Solid

Date Received: 02/02/24 10:11 Percent Solids: 81.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	02/05/24 13:47	02/07/24 00:32	1
o-Terphenyl	142	S1+	70 - 130	02/05/24 13:47	02/07/24 00:32	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.03	0.397	mg/Kg			02/06/24 11:56	1

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 3 Lab Sample ID: 820-11924-3

Date Collected: 02/01/24 15:39 Matrix: Solid
Date Received: 02/02/24 10:11 Percent Solids: 81.7

Method: SW846 8021B - Vo	olatile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000469	U	0.00243	0.000469	mg/Kg	<u></u>	02/07/24 16:52	02/11/24 19:42	1
Toluene	< 0.000555	U	0.00243	0.000555	mg/Kg	☼	02/07/24 16:52	02/11/24 19:42	1
Ethylbenzene	<0.000688	U *+	0.00243	0.000688	mg/Kg	☼	02/07/24 16:52	02/11/24 19:42	1
m-Xylene & p-Xylene	<0.00123	U *+	0.00487	0.00123	mg/Kg	₽	02/07/24 16:52	02/11/24 19:42	1
o-Xylene	< 0.000419	U *+	0.00243	0.000419	mg/Kg	☼	02/07/24 16:52	02/11/24 19:42	1
Xylenes, Total	<0.00123	U *+	0.00487	0.00123	mg/Kg	₩	02/07/24 16:52	02/11/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				02/07/24 16:52	02/11/24 19:42	1
1.4-Difluorobenzene (Surr)	82		70 - 130				02/07/24 16:52	02/11/24 19:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.3	J	61.1	18.3	mg/Kg	*	02/05/24 13:47	02/07/24 00:53	1
Diesel Range Organics (Over C10-C28)	108	В	61.1	18.3	mg/Kg	₩	02/05/24 13:47	02/07/24 00:53	1
Oll Range Organics (Over C28-C36)	<18.3	U	61.1	18.3	mg/Kg	₩	02/05/24 13:47	02/07/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				02/05/24 13:47	02/07/24 00:53	1
o-Terphenyl	125		70 - 130				02/05/24 13:47	02/07/24 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	360		5.00	0.395	mg/Kg			02/06/24 12:00	1

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 4

Date Collected: 01/31/24 19:41

Lab Sample ID: 820-11924-4

Matrix: Solid

Date Received: 02/02/24 10:11 Received: 02/02/24 10:11

olatile Organic (Compound	ds (GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000607	U	0.00315	0.000607	mg/Kg	☆	02/07/24 16:52	02/11/24 20:03	1
< 0.000719	U	0.00315	0.000719	mg/Kg	₩	02/07/24 16:52	02/11/24 20:03	1
<0.000890	U *+	0.00315	0.000890	mg/Kg	₩	02/07/24 16:52	02/11/24 20:03	1
<0.00159	U *+	0.00630	0.00159	mg/Kg	₩	02/07/24 16:52	02/11/24 20:03	1
< 0.000542	U *+	0.00315	0.000542	mg/Kg	₩	02/07/24 16:52	02/11/24 20:03	1
< 0.00159	U *+	0.00630	0.00159	mg/Kg	₩	02/07/24 16:52	02/11/24 20:03	1
_	Result <0.000607 <0.000719 <0.000890 <0.00159 <0.000542	Colatile Organic Compound Result Qualifier	<0.000607 U 0.00315 <0.000719 U 0.00315 <0.000890 U*+ 0.00315 <0.00159 U*+ 0.00630 <0.000542 U*+ 0.00315	Result Qualifier RL MDL <0.000607	Result Qualifier RL MDL Unit <0.000607	Result Qualifier RL MDL Unit D <0.000607	Result Qualifier RL MDL Unit D Prepared <0.000607	Result Qualifier RL MDL Unit D Prepared Analyzed <0.000607

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 4 Lab Sample ID: 820-11924-4

Date Collected: 01/31/24 19:41 **Matrix: Solid**

Date Received: 02/02/24 10:11 Percent Solids: 63.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/07/24 16:52	02/11/24 20:03	1
1,4-Difluorobenzene (Surr)	77		70 - 130	02/07/24 16:52	02/11/24 20:03	1

4-Bromofluorobenzene (Surr)	91	70 - 130	02/07/24 16:52 02/11/24 20:03 1	
1,4-Difluorobenzene (Surr)	77	70 - 130	02/07/24 16:52 02/11/24 20:03 1	
Method: SW846 8015B NM - Di	iosol Pango Organ	sice (DPO) (GC)		

Method: SW846 8015B NM - E	Diesel Range	e Organics	i (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<23.5	U	78.4	23.5	mg/Kg	*	02/05/24 13:47	02/07/24 01:14	1
Diesel Range Organics (Over C10-C28)	290	В	78.4	23.5	mg/Kg	₩	02/05/24 13:47	02/07/24 01:14	1
Oll Range Organics (Over C28-C36)	<23.5	U	78.4	23.5	mg/Kg	₩	02/05/24 13:47	02/07/24 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				02/05/24 13:47	02/07/24 01:14	1
o-Terphenyl	125		70 - 130				02/05/24 13:47	02/07/24 01:14	1

Method: EPA 300.0 - Anions, I	on Chromatogra	aphy - Soluble						
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840	25.1	1.98	mg/Kg			02/06/24 12:05	5

Client Sample ID: Seawolf 91H-9-7-23 Bottom 1 Lab Sample ID: 820-11924-5

Date Collected: 02/01/24 15:37 **Matrix: Solid** Date Received: 02/02/24 10:11 **Percent Solids: 77.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000498	U	0.00259	0.000498	mg/Kg	-	02/07/24 16:52	02/11/24 20:24	1
Toluene	<0.000589	U	0.00259	0.000589	mg/Kg	₩	02/07/24 16:52	02/11/24 20:24	1
Ethylbenzene	< 0.000730	U *+	0.00259	0.000730	mg/Kg	₩	02/07/24 16:52	02/11/24 20:24	1
m-Xylene & p-Xylene	<0.00131	U *+	0.00517	0.00131	mg/Kg	₩	02/07/24 16:52	02/11/24 20:24	1
o-Xylene	< 0.000445	U *+	0.00259	0.000445	mg/Kg	☼	02/07/24 16:52	02/11/24 20:24	1
Xylenes, Total	<0.00131	U *+	0.00517	0.00131	mg/Kg	₩	02/07/24 16:52	02/11/24 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				02/07/24 16:52	02/11/24 20:24	1
1,4-Difluorobenzene (Surr)	83		70 - 130				02/07/24 16:52	02/11/24 20:24	1

7.17.0.1.00, 10.10.1	0.00.0.	•	0.0001.	0.00.0.	9/. 19	-1-	02/01/21 10:02	02//2 . 20.2 .	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				02/07/24 16:52	02/11/24 20:24	1
1,4-Difluorobenzene (Surr)	83		70 - 130				02/07/24 16:52	02/11/24 20:24	1
Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<19.3	U	64.3	19.3	mg/Kg		02/05/24 13:47	02/07/24 01:35	1
Diesel Range Organics (Over C10-C28)	470	В	64.3	19.3	mg/Kg	₩	02/05/24 13:47	02/07/24 01:35	1
Oll Range Organics (Over C28-C36)	<19.3	U	64.3	19.3	mg/Kg	≎	02/05/24 13:47	02/07/24 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				02/05/24 13:47	02/07/24 01:35	1
o-Terphenyl	124		70 - 130				02/05/24 13:47	02/07/24 01:35	1
Method: EPA 300.0 - Anions, I	on Chromat	tography -	- Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		4.98	0.393	mg/Kg			02/06/24 12:10	1

Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 2 Lab Sample ID: 820-11924-6

Date Collected: 01/31/24 19:48

Matrix: Solid

Date Received: 02/02/24 10:11 Percent Solids: 65.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000583	U	0.00303	0.000583	mg/Kg	<u></u>	02/07/24 16:52	02/11/24 20:45	1
Toluene	< 0.000691	U	0.00303	0.000691	mg/Kg	☼	02/07/24 16:52	02/11/24 20:45	1
Ethylbenzene	<0.000856	U *+	0.00303	0.000856	mg/Kg	₩	02/07/24 16:52	02/11/24 20:45	1
m-Xylene & p-Xylene	<0.00153	U *+	0.00606	0.00153	mg/Kg	⊅	02/07/24 16:52	02/11/24 20:45	1
o-Xylene	< 0.000521	U *+	0.00303	0.000521	mg/Kg	☼	02/07/24 16:52	02/11/24 20:45	1
Xylenes, Total	<0.00153	U *+	0.00606	0.00153	mg/Kg	≎	02/07/24 16:52	02/11/24 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				02/07/24 16:52	02/11/24 20:45	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/07/24 16:52	02/11/24 20:45	1
- Method: SW846 8015B NM	- Diesel Range	Organics	(DRO) (GC	;)					
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	49.0	J	75.4	22.6	mg/Kg	— <u></u>	02/05/24 13:47	02/07/24 01:56	1

Method: SW846 8015B NM - I	Diesel Range	Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	49.0	J	75.4	22.6	mg/Kg	-	02/05/24 13:47	02/07/24 01:56	1
Diesel Range Organics (Over C10-C28)	33.5	JB	75.4	22.6	mg/Kg	₩	02/05/24 13:47	02/07/24 01:56	1
Oll Range Organics (Over C28-C36)	<22.6	U	75.4	22.6	mg/Kg	₩	02/05/24 13:47	02/07/24 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				02/05/24 13:47	02/07/24 01:56	1
o-Terphenyl	118		70 - 130				02/05/24 13:47	02/07/24 01:56	1

Method: EPA 300.0 - Anions, Ior									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.01	0.396	mg/Kg			02/06/24 12:24	1

Client Sample ID: Seawolf 91H-9-7-23 Bottom 3

Date Collected: 01/31/24 19:50

Lab Sample ID: 820-11924-7

Matrix: Solid

Date Received: 02/02/24 10:11 Percent Solids: 73.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000518	U	0.00269	0.000518	mg/Kg	*	02/07/24 16:52	02/11/24 21:06	1
Toluene	<0.000614	U	0.00269	0.000614	mg/Kg	☼	02/07/24 16:52	02/11/24 21:06	1
Ethylbenzene	< 0.000761	U *+	0.00269	0.000761	mg/Kg	☼	02/07/24 16:52	02/11/24 21:06	1
m-Xylene & p-Xylene	<0.00136	U *+	0.00539	0.00136	mg/Kg	₩	02/07/24 16:52	02/11/24 21:06	1
o-Xylene	< 0.000463	U *+	0.00269	0.000463	mg/Kg	☼	02/07/24 16:52	02/11/24 21:06	1
Xylenes, Total	<0.00136	U *+	0.00539	0.00136	mg/Kg	≎	02/07/24 16:52	02/11/24 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				02/07/24 16:52	02/11/24 21:06	1
1.4-Difluorobenzene (Surr)	90		70 - 130				02/07/24 16:52	02/11/24 21:06	1

Method: SW846 8015B NM - Die Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.6	J	68.1	20.4	mg/Kg	*	02/05/24 13:47	02/07/24 02:18	1
Diesel Range Organics (Over C10-C28)	49.7	JB	68.1	20.4	mg/Kg	₩	02/05/24 13:47	02/07/24 02:18	1
Oll Range Organics (Over C28-C36)	<20.4	U	68.1	20.4	mg/Kg	₽	02/05/24 13:47	02/07/24 02:18	1

Eurofins Lubbock

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 3 Lab Sample ID: 820-11924-7

Date Collected: 01/31/24 19:50 **Matrix: Solid**

Date Received: 02/02/24 10:11 Percent Solids: 73.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	02/05/24 13:47	02/07/24 02:18	1
o-Terphenyl	127		70 - 130	02/05/24 13:47	02/07/24 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac 02/06/24 12:28 Chloride 566 5.04 0.398 mg/Kg

Client Sample ID: Seawolf 91H-9-7-23 Bottom 4 Lab Sample ID: 820-11924-8

Date Collected: 01/31/24 19:52 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 82.0

Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000468	U	0.00243	0.000468	mg/Kg	*	02/07/24 16:52	02/11/24 21:27	1
Toluene	< 0.000555	U	0.00243	0.000555	mg/Kg	₩	02/07/24 16:52	02/11/24 21:27	1
Ethylbenzene	<0.000687	U *+	0.00243	0.000687	mg/Kg	☼	02/07/24 16:52	02/11/24 21:27	1
m-Xylene & p-Xylene	<0.00123	U *+	0.00487	0.00123	mg/Kg	₩	02/07/24 16:52	02/11/24 21:27	1
o-Xylene	< 0.000419	U *+	0.00243	0.000419	mg/Kg	☼	02/07/24 16:52	02/11/24 21:27	1
Xylenes, Total	<0.00123	U *+	0.00487	0.00123	mg/Kg	₩	02/07/24 16:52	02/11/24 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				02/07/24 16:52	02/11/24 21:27	1
1,4-Difluorobenzene (Surr)	89		70 - 130				02/07/24 16:52	02/11/24 21:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.7	J	61.1	18.3	mg/Kg	-	02/05/24 13:47	02/07/24 02:40	1
Diesel Range Organics (Over C10-C28)	61.2	В	61.1	18.3	mg/Kg	₩	02/05/24 13:47	02/07/24 02:40	1
Oll Range Organics (Over C28-C36)	<18.3	U	61.1	18.3	mg/Kg	₩	02/05/24 13:47	02/07/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				02/05/24 13:47	02/07/24 02:40	1
o-Terphenyl	119		70 - 130				02/05/24 13:47	02/07/24 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
١	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	882		4.97	0.393	mg/Kg			02/06/24 12:33	1

Client Sample ID: Seawolf 91H-9-7-23 Bottom 5 Lab Sample ID: 820-11924-9

Date Collected: 01/31/24 19:54 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 70.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000550	U	0.00285	0.000550	mg/Kg	☼	02/07/24 16:52	02/11/24 21:47	1
Toluene	< 0.000651	U	0.00285	0.000651	mg/Kg	☼	02/07/24 16:52	02/11/24 21:47	1
Ethylbenzene	<0.000806	U *+	0.00285	0.000806	mg/Kg	☼	02/07/24 16:52	02/11/24 21:47	1
m-Xylene & p-Xylene	<0.00144	U *+	0.00571	0.00144	mg/Kg	₩	02/07/24 16:52	02/11/24 21:47	1
o-Xylene	< 0.000491	U *+	0.00285	0.000491	mg/Kg	☼	02/07/24 16:52	02/11/24 21:47	1
Xylenes, Total	< 0.00144	U *+	0.00571	0.00144	mg/Kg	₽	02/07/24 16:52	02/11/24 21:47	1

Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 5

127

Date Collected: 01/31/24 19:54 Date Received: 02/02/24 10:11

o-Terphenyl

Lab Sample ID: 820-11924-9

02/05/24 13:47 02/07/24 03:01

Matrix: Solid

Job ID: 820-11924-1

Percent Solids: 70.5

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	02/07/24 16:52 02/11/24 21:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/07/24 16:52 02/11/24 21:47	1

Method: SW846 8015B NM - Diesel F	Range Or	ganics (DRO) (GC)	
1,4-Difluorobenzene (Surr)	84	70 - 130	02/07/24 16:52 02/11/24 21:47
T-Diomondocitzene (Sun)	01	70 - 130	02/01/24 10.02 02/11/24 21.41

Method: SW846 8015B NM - D	iesel Range	organics :	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.5	J	71.3	21.4	mg/Kg	*	02/05/24 13:47	02/07/24 03:01	1
Diesel Range Organics (Over C10-C28)	60.8	JB	71.3	21.4	mg/Kg	₩	02/05/24 13:47	02/07/24 03:01	1
Oll Range Organics (Over C28-C36)	<21.4	U	71.3	21.4	mg/Kg	≎	02/05/24 13:47	02/07/24 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				02/05/24 13:47	02/07/24 03:01	1

١	Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	669		5.03	0.397	mg/Kg			02/06/24 12:38	1

70 - 130

Client Sample ID: Seawolf 91H-9-7-23 Bottom 6 Lab Sample ID: 820-11924-10

Date Collected: 01/31/24 19:58 **Matrix: Solid** Date Received: 02/02/24 10:11 **Percent Solids: 71.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000539	U	0.00280	0.000539	mg/Kg	*	02/07/24 16:52	02/11/24 22:08	1
Toluene	<0.000638	U	0.00280	0.000638	mg/Kg	☼	02/07/24 16:52	02/11/24 22:08	1
Ethylbenzene	< 0.000791	U *+	0.00280	0.000791	mg/Kg	☼	02/07/24 16:52	02/11/24 22:08	1
m-Xylene & p-Xylene	<0.00141	U *+	0.00560	0.00141	mg/Kg	₩	02/07/24 16:52	02/11/24 22:08	1
o-Xylene	<0.000482	U *+	0.00280	0.000482	mg/Kg	☼	02/07/24 16:52	02/11/24 22:08	1
Xylenes, Total	<0.00141	U *+	0.00560	0.00141	mg/Kg	☼	02/07/24 16:52	02/11/24 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				02/07/24 16:52	02/11/24 22:08	1
1,4-Difluorobenzene (Surr)	78		70 - 130				02/07/24 16:52	02/11/24 22:08	1

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4-Bromofluorobenzene (Surr)	88		70 - 130				02/07/24 16:52	02/11/24 22:08	1
1,4-Difluorobenzene (Surr)	78		70 - 130				02/07/24 16:52	02/11/24 22:08	1
_ Method: SW846 8015B NM - [Diesel Range	organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.5	J	70.4	21.1	mg/Kg	<u></u>	02/05/24 13:47	02/07/24 03:22	1
Diesel Range Organics (Over C10-C28)	40.0	JB	70.4	21.1	mg/Kg	₩	02/05/24 13:47	02/07/24 03:22	1
Oll Range Organics (Over C28-C36)	<21.1	U	70.4	21.1	mg/Kg	₩	02/05/24 13:47	02/07/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				02/05/24 13:47	02/07/24 03:22	1
o-Terphenyl	116		70 - 130				02/05/24 13:47	02/07/24 03:22	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.99	0.394	mg/Kg			02/06/24 12:42	1

Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Lab Sample ID: 820-11924-11

Client Sample ID: Seawolf 91H-9-7-23 Bottom 7 Date Collected: 01/31/24 20:00 **Matrix: Solid**

Percent Solids: 67.0

Job ID: 820-11924-1

Date Received: 02/02/24 10:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000573	U	0.00298	0.000573	mg/Kg	<u></u>	02/07/24 16:52	02/11/24 23:31	1
Toluene	0.000729	J	0.00298	0.000678	mg/Kg	₩	02/07/24 16:52	02/11/24 23:31	1
Ethylbenzene	<0.000841	U *+	0.00298	0.000841	mg/Kg	₩	02/07/24 16:52	02/11/24 23:31	1
m-Xylene & p-Xylene	<0.00150	U *+	0.00595	0.00150	mg/Kg	₩	02/07/24 16:52	02/11/24 23:31	1
o-Xylene	< 0.000512	U *+	0.00298	0.000512	mg/Kg	₩	02/07/24 16:52	02/11/24 23:31	1
Xylenes, Total	<0.00150	U *+	0.00595	0.00150	mg/Kg	≎	02/07/24 16:52	02/11/24 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/07/24 16:52	02/11/24 23:31	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130				02/07/24 16:52	02/11/24 23:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.1	J	75.4	22.6	mg/Kg	-	02/05/24 13:47	02/07/24 04:04	1
Diesel Range Organics (Over C10-C28)	38.0	JB	75.4	22.6	mg/Kg	₩	02/05/24 13:47	02/07/24 04:04	1
Oll Range Organics (Over C28-C36)	<22.6	U	75.4	22.6	mg/Kg	₩	02/05/24 13:47	02/07/24 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				02/05/24 13:47	02/07/24 04:04	1
o-Terphenyl	134	S1+	70 - 130				02/05/24 13:47	02/07/24 04:04	1

Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	511	F1	5.05	0.399	mg/Kg			02/06/24 12:47	1

Client Sample ID: Seawolf 91H-9-7-23 Bottom 8 Lab Sample ID: 820-11924-12

Date Collected: 01/31/24 20:02 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 66.7

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000574	U	0.00298	0.000574	mg/Kg	<u></u>	02/07/24 16:52	02/11/24 23:52	1
Toluene	<0.000680	U	0.00298	0.000680	mg/Kg	₩	02/07/24 16:52	02/11/24 23:52	1
Ethylbenzene	< 0.000842	U *+	0.00298	0.000842	mg/Kg	₩	02/07/24 16:52	02/11/24 23:52	1
m-Xylene & p-Xylene	<0.00151	U *+	0.00596	0.00151	mg/Kg	₩	02/07/24 16:52	02/11/24 23:52	1
o-Xylene	< 0.000513	U *+	0.00298	0.000513	mg/Kg	☼	02/07/24 16:52	02/11/24 23:52	1
Xylenes, Total	<0.00151	U *+	0.00596	0.00151	mg/Kg	≎	02/07/24 16:52	02/11/24 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/07/24 16:52	02/11/24 23:52	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130				02/07/24 16:52	02/11/24 23:52	1

Method: SW846 8015B NM - Di	esel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	107		75.0	22.5	mg/Kg		02/05/24 13:47	02/07/24 04:25	1
Diesel Range Organics (Over C10-C28)	4090	В	75.0	22.5	mg/Kg	₩	02/05/24 13:47	02/07/24 04:25	1
Oll Range Organics (Over C28-C36)	<22.5	U	75.0	22.5	mg/Kg	₩	02/05/24 13:47	02/07/24 04:25	1

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 8

Date Collected: 01/31/24 20:02 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-12

Matrix: Solid Percent Solids: 66.7

Surrogate	%Recovery	Qualifier	Limits	Prepared A	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130	02/05/24 13:47 02/	07/24 04:25	1
o-Terphenyl	117		70 - 130	02/05/24 13:47 02/	07/24 04:25	1

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1-Chlorooctane	155	S1+	70 - 130	02/05/	/24 13:47	02/07/24 04:25	1
o-Terphenyl	117		70 - 130	02/05/	/24 13:47	02/07/24 04:25	1
Г., .,			(550)				

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)	- RA					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	100	В	74.5	22.4	mg/Kg	<u> </u>	02/05/24 10:14	02/08/24 11:26	1
Diesel Range Organics (Over C10-C28)	2320	В	74.5	22.4	mg/Kg	≎	02/05/24 10:14	02/08/24 11:26	1
OII Range Organics (Over C28-C36)	<22.4	U	74.5	22.4	mg/Kg	☼	02/05/24 10:14	02/08/24 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				02/05/24 10:14	02/08/24 11:26	1
o-Terphenyl	101		70 - 130				02/05/24 10:14	02/08/24 11:26	1

Method: EPA 300.0 - Anions, I	on Chromat	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		5.03	0.397	mg/Kg			02/06/24 13:01	1

Lab Sample ID: 820-11924-13 Client Sample ID: Seawolf 91H-9-7-23 Bottom 9

Date Collected: 01/31/24 20:03 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 74.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000513	U	0.00266	0.000513	mg/Kg	*	02/07/24 16:52	02/12/24 00:12	1
Toluene	<0.000607	U	0.00266	0.000607	mg/Kg	☼	02/07/24 16:52	02/12/24 00:12	1
Ethylbenzene	< 0.000752	U *+	0.00266	0.000752	mg/Kg	☼	02/07/24 16:52	02/12/24 00:12	1
m-Xylene & p-Xylene	<0.00134	U *+	0.00533	0.00134	mg/Kg	☼	02/07/24 16:52	02/12/24 00:12	1
o-Xylene	<0.000458	U *+	0.00266	0.000458	mg/Kg	☼	02/07/24 16:52	02/12/24 00:12	1
Xylenes, Total	<0.00134	U *+	0.00533	0.00134	mg/Kg	☼	02/07/24 16:52	02/12/24 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/07/24 16:52	02/12/24 00:12	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/07/24 16:52	02/12/24 00:12	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/07/24 16:52	02/12/24 00:12	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/07/24 16:52	02/12/24 00:12	1
- Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.2	J	66.6	20.0	mg/Kg	<u></u>	02/05/24 13:47	02/07/24 04:46	1
Diesel Range Organics (Over C10-C28)	57.6	JB	66.6	20.0	mg/Kg	₩	02/05/24 13:47	02/07/24 04:46	1
Oll Range Organics (Over C28-C36)	<20.0	U	66.6	20.0	mg/Kg	≎	02/05/24 13:47	02/07/24 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				02/05/24 13:47	02/07/24 04:46	1
o-Terphenyl	126		70 - 130				02/05/24 13:47	02/07/24 04:46	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823		4.95	0.391	mg/Kg			02/06/24 13:05	1

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 10 Lab Sample ID: 820-11924-14

Date Collected: 01/31/24 20:05

Date Received: 02/02/24 10:11

Percent Solids: 74.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000522	U	0.00271	0.000522	mg/Kg	<u></u>	02/07/24 16:52	02/12/24 00:33	1
Toluene	<0.000618	U	0.00271	0.000618	mg/Kg	₽	02/07/24 16:52	02/12/24 00:33	1
Ethylbenzene	< 0.000766	U *+	0.00271	0.000766	mg/Kg	₽	02/07/24 16:52	02/12/24 00:33	1
m-Xylene & p-Xylene	<0.00137	U *+	0.00543	0.00137	mg/Kg	≎	02/07/24 16:52	02/12/24 00:33	1
o-Xylene	< 0.000467	U *+	0.00271	0.000467	mg/Kg	₽	02/07/24 16:52	02/12/24 00:33	1
Xylenes, Total	<0.00137	U *+	0.00543	0.00137	mg/Kg	₩	02/07/24 16:52	02/12/24 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/07/24 16:52	02/12/24 00:33	1
1,4-Difluorobenzene (Surr)	80		70 - 130				02/07/24 16:52	02/12/24 00:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.8	J	67.2	20.2	mg/Kg	*	02/05/24 13:47	02/07/24 05:07	1
Diesel Range Organics (Over C10-C28)	35.0	JB	67.2	20.2	mg/Kg	₩	02/05/24 13:47	02/07/24 05:07	1
Oll Range Organics (Over C28-C36)	<20.2	U	67.2	20.2	mg/Kg	₽	02/05/24 13:47	02/07/24 05:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				02/05/24 13:47	02/07/24 05:07	1
o-Terphenyl	124		70 - 130				02/05/24 13:47	02/07/24 05:07	1

Method: EPA 300.0 - Anions, lo	n Chromat	ography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		4.98	0.393	mg/Kg			02/06/24 13:19	1

Client Sample ID: Seawolf 91H-9-7-23 Bottom 11 Lab Sample ID: 820-11924-15
Date Collected: 01/31/24 20:07

Matrix: Solid

 Date Collected: 01/31/24 20:07
 Matrix: Solid

 Date Received: 02/02/24 10:11
 Percent Solids: 72.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000531	U	0.00276	0.000531	mg/Kg	-	02/07/24 16:52	02/12/24 00:53	1
Toluene	< 0.000629	U	0.00276	0.000629	mg/Kg	☼	02/07/24 16:52	02/12/24 00:53	1
Ethylbenzene	< 0.000779	U *+	0.00276	0.000779	mg/Kg	☼	02/07/24 16:52	02/12/24 00:53	1
m-Xylene & p-Xylene	<0.00139	U *+	0.00552	0.00139	mg/Kg	☼	02/07/24 16:52	02/12/24 00:53	1
o-Xylene	< 0.000474	U *+	0.00276	0.000474	mg/Kg	☼	02/07/24 16:52	02/12/24 00:53	1
Xylenes, Total	<0.00139	U *+	0.00552	0.00139	mg/Kg	☼	02/07/24 16:52	02/12/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/07/24 16:52	02/12/24 00:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/07/24 16:52	02/12/24 00:53	1

Method: SW846 8015B NM - Die	sel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.8	J	68.4	20.5	mg/Kg	*	02/05/24 13:47	02/07/24 05:29	1
Diesel Range Organics (Over C10-C28)	53.4	JB	68.4	20.5	mg/Kg	₩	02/05/24 13:47	02/07/24 05:29	1
Oll Range Organics (Over C28-C36)	<20.5	U	68.4	20.5	mg/Kg	₩	02/05/24 13:47	02/07/24 05:29	1

Eurofins Lubbock

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Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 11

Date Collected: 01/31/24 20:07 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-15

Matrix: Solid

Percent Solids: 72.7

Job ID: 820-11924-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	02/05/24 13:47	02/07/24 05:29	1
o-Terphenyl	132	S1+	70 - 130	02/05/24 13:47	02/07/24 05:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac Chloride 5.00 02/06/24 13:24 1230 0.395 mg/Kg

Client Sample ID: Seawolf 91H-9-7-23 Bottom 12 Lab Sample ID: 820-11924-16

Date Collected: 01/31/24 20:10 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 72.9

Method: SW846 8021B - Vo	olatile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000526	U	0.00273	0.000526	mg/Kg	<u></u>	02/07/24 16:52	02/12/24 01:13	1
Toluene	< 0.000623	U	0.00273	0.000623	mg/Kg	☼	02/07/24 16:52	02/12/24 01:13	1
Ethylbenzene	< 0.000772	U *+	0.00273	0.000772	mg/Kg	☼	02/07/24 16:52	02/12/24 01:13	1
m-Xylene & p-Xylene	<0.00138	U *+	0.00547	0.00138	mg/Kg	₩	02/07/24 16:52	02/12/24 01:13	1
o-Xylene	< 0.000470	U *+	0.00273	0.000470	mg/Kg	☼	02/07/24 16:52	02/12/24 01:13	1
Xylenes, Total	<0.00138	U *+	0.00547	0.00138	mg/Kg	₩	02/07/24 16:52	02/12/24 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/07/24 16:52	02/12/24 01:13	1
1.4-Difluorobenzene (Surr)	81		70 - 130				02/07/24 16:52	02/12/24 01:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.3	J	68.7	20.6	mg/Kg	-	02/05/24 13:47	02/07/24 05:49	1
Diesel Range Organics (Over C10-C28)	60.2	JB	68.7	20.6	mg/Kg	₩	02/05/24 13:47	02/07/24 05:49	1
Oll Range Organics (Over C28-C36)	<20.6	U	68.7	20.6	mg/Kg	₩	02/05/24 13:47	02/07/24 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				02/05/24 13:47	02/07/24 05:49	1
o-Terphenyl	135	S1+	70 - 130				02/05/24 13:47	02/07/24 05:49	1

	Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	695		5.01	0.396	mg/Kg			02/06/24 13:29	1

Lab Sample ID: 820-11924-17 Client Sample ID: Seawolf 91H-9-7-23 Bottom 13 Date Collected: 01/31/24 20:12 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000453	U	0.00235	0.000453	mg/Kg	<u></u>	02/07/24 16:52	02/12/24 01:34	1
Toluene	< 0.000536	U	0.00235	0.000536	mg/Kg	₩	02/07/24 16:52	02/12/24 01:34	1
Ethylbenzene	< 0.000664	U *+	0.00235	0.000664	mg/Kg	☼	02/07/24 16:52	02/12/24 01:34	1
m-Xylene & p-Xylene	<0.00119	U *+	0.00470	0.00119	mg/Kg	☼	02/07/24 16:52	02/12/24 01:34	1
o-Xylene	<0.000404	U *+	0.00235	0.000404	mg/Kg	☼	02/07/24 16:52	02/12/24 01:34	1
Xylenes, Total	< 0.00119	U *+	0.00470	0.00119	mg/Kg	₩	02/07/24 16:52	02/12/24 01:34	1

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Lab Sample ID: 820-11924-17

Client Sample ID: Seawolf 91H-9-7-23 Bottom 13 Date Collected: 01/31/24 20:12

Matrix: Solid

Job ID: 820-11924-1

Date Received: 02/02/24 10:11 Percent Solids: 84.6

	Surrogate	%Recovery	Qualifier	Limits	Prepared Analyze	d Dil Fac
1	4-Bromofluorobenzene (Surr)	89		70 - 130	02/07/24 16:52 02/12/24 0	1:34 1
L	1,4-Difluorobenzene (Surr)	79		70 - 130	02/07/24 16:52 02/12/24 0	1:34 1

Juliogate	701 TECOVETY	Qualifier	Liiiits	i repareu	Allalyzea	Dii i ac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/07/24 16:52	02/12/24 01:34	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/07/24 16:52	2 02/12/24 01:34	1
Made at 0000 40 004 FD NM D		0	(DDO) (O)			

Method: SW846 8015B NM - I	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<17.8	U	59.3	17.8	mg/Kg	<u> </u>	02/05/24 13:47	02/07/24 06:10	1
Diesel Range Organics (Over C10-C28)	506	В	59.3	17.8	mg/Kg	≎	02/05/24 13:47	02/07/24 06:10	1
Oll Range Organics (Over C28-C36)	<17.8	U	59.3	17.8	mg/Kg	₩	02/05/24 13:47	02/07/24 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				02/05/24 13:47	02/07/24 06:10	1
o-Terphenyl	117		70 - 130				02/05/24 13:47	02/07/24 06:10	1

Method: EPA 300.0 - Anions, I	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2570	24.9	1.96 mg/Kg			02/06/24 13:33	5

Client Sample ID: Seawolf 91H-9-7-23 Bottom 14 Lab Sample ID: 820-11924-18

Date Collected: 01/31/24 20:14 **Matrix: Solid** Date Received: 02/02/24 10:11 Percent Solids: 65.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000589	U	0.00306	0.000589	mg/Kg	<u></u>	02/07/24 16:52	02/12/24 01:54	1
Toluene	<0.000698	U	0.00306	0.000698	mg/Kg	₩	02/07/24 16:52	02/12/24 01:54	1
Ethylbenzene	<0.000865	U *+	0.00306	0.000865	mg/Kg	₩	02/07/24 16:52	02/12/24 01:54	1
m-Xylene & p-Xylene	<0.00155	U *+	0.00612	0.00155	mg/Kg	₩	02/07/24 16:52	02/12/24 01:54	1
o-Xylene	<0.000527	U *+	0.00306	0.000527	mg/Kg	₩	02/07/24 16:52	02/12/24 01:54	1
Xylenes, Total	<0.00155	U *+	0.00612	0.00155	mg/Kg	☼	02/07/24 16:52	02/12/24 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				02/07/24 16:52	02/12/24 01:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/07/24 16:52	02/12/24 01:54	1

Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery 84 81	Qualifier	Limits 70 - 130 70 - 130					Analyzed 02/12/24 01:54 02/12/24 01:54	Dil Fac 1 1
Method: SW846 8015B NM - D	Diesel Range	o Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.0	J	77.3	23.2	mg/Kg	-	02/05/24 13:47	02/07/24 06:32	1
Diesel Range Organics (Over C10-C28)	243	В	77.3	23.2	mg/Kg	₩	02/05/24 13:47	02/07/24 06:32	1
Oll Range Organics (Over C28-C36)	<23.2	U	77.3	23.2	mg/Kg	₽	02/05/24 13:47	02/07/24 06:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				02/05/24 13:47	02/07/24 06:32	1
o-Terphenyl	115		70 - 130				02/05/24 13:47	02/07/24 06:32	1
Method: EPA 300.0 - Anions,	Ion Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2760		25.0	1.97	mg/Kg			02/06/24 13:38	5

Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 15 Lab Sample ID: 820-11924-19

Date Collected: 01/31/24 20:16

Date Received: 02/02/24 10:11

Percent Solids: 88.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000438	U	0.00228	0.000438	mg/Kg	<u></u>	02/07/24 16:52	02/12/24 02:15	1
Toluene	< 0.000519	U	0.00228	0.000519	mg/Kg	☼	02/07/24 16:52	02/12/24 02:15	1
Ethylbenzene	< 0.000643	U *+	0.00228	0.000643	mg/Kg	☼	02/07/24 16:52	02/12/24 02:15	1
m-Xylene & p-Xylene	<0.00115	U *+	0.00455	0.00115	mg/Kg	₩	02/07/24 16:52	02/12/24 02:15	1
o-Xylene	< 0.000391	U *+	0.00228	0.000391	mg/Kg	☼	02/07/24 16:52	02/12/24 02:15	1
Xylenes, Total	<0.00115	U *+	0.00455	0.00115	mg/Kg	☼	02/07/24 16:52	02/12/24 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				02/07/24 16:52	02/12/24 02:15	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/07/24 16:52	02/12/24 02:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.6	J	57.1	17.1	mg/Kg	*	02/05/24 13:47	02/07/24 06:53	1
Diesel Range Organics (Over C10-C28)	174	В	57.1	17.1	mg/Kg	₩	02/05/24 13:47	02/07/24 06:53	1
Oll Range Organics (Over C28-C36)	<17.1	U	57.1	17.1	mg/Kg	₽	02/05/24 13:47	02/07/24 06:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				02/05/24 13:47	02/07/24 06:53	1
o-Terphenyl	117		70 - 130				02/05/24 13:47	02/07/24 06:53	1

Method: EPA 300.0 - Anions, Id	on Chromat	tography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4190		25.1	1.98	mg/Kg			02/06/24 13:43	5

Client Sample ID: Seawolf 91H-9-7-23 Bottom 16

Date Collected: 01/31/24 20:18

Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-20

Matrix: Solid

Percent Solids: 79.8

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000484	U	0.00251	0.000484	mg/Kg	-	02/07/24 16:52	02/12/24 02:35	1
Toluene	< 0.000573	U	0.00251	0.000573	mg/Kg	☼	02/07/24 16:52	02/12/24 02:35	1
Ethylbenzene	< 0.000710	U *+	0.00251	0.000710	mg/Kg	₩	02/07/24 16:52	02/12/24 02:35	1
m-Xylene & p-Xylene	<0.00127	U *+	0.00503	0.00127	mg/Kg	⊅	02/07/24 16:52	02/12/24 02:35	1
o-Xylene	< 0.000432	U *+	0.00251	0.000432	mg/Kg	☼	02/07/24 16:52	02/12/24 02:35	1
Xylenes, Total	<0.00127	U *+	0.00503	0.00127	mg/Kg	☼	02/07/24 16:52	02/12/24 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				02/07/24 16:52	02/12/24 02:35	1
1,4-Difluorobenzene (Surr)	80		70 - 130				02/07/24 16:52	02/12/24 02:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	30.0	J	62.4	18.7	mg/Kg	*	02/05/24 13:47	02/07/24 07:14	1		
Diesel Range Organics (Over C10-C28)	330	В	62.4	18.7	mg/Kg	₩	02/05/24 13:47	02/07/24 07:14	1		
OII Range Organics (Over C28-C36)	<18.7	U	62.4	18.7	mg/Kg	≎	02/05/24 13:47	02/07/24 07:14	1		

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Lab Sample ID: 820-11924-20

Client Sample ID: Seawolf 91H-9-7-23 Bottom 16
Date Collected: 01/31/24 20:18

Matrix: Solid

Date Received: 02/02/24 10:11

Percent Solids: 79.8

Job ID: 820-11924-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	02/05/24 13:47	02/07/24 07:14	1
o-Terphenyl	116		70 - 130	02/05/24 13:47	02/07/24 07:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac
Chloride 1800 25.2 1.99 mg/Kg 02/06/24 13:47 5

Client Sample ID: Seawolf 91H-9-7-23 Bottom 17

Lab Sample ID: 820-11924-21

Date Collected: 01/31/24 20:20 Matrix: Solid
Date Received: 02/02/24 10:11 Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000424	U *-	0.00220	0.000424	mg/Kg	☼	02/08/24 13:05	02/08/24 21:09	1
Toluene	< 0.000502	U	0.00220	0.000502	mg/Kg	☼	02/08/24 13:05	02/08/24 21:09	1
Ethylbenzene	< 0.000622	U	0.00220	0.000622	mg/Kg	₩	02/08/24 13:05	02/08/24 21:09	1
m-Xylene & p-Xylene	<0.00111	U	0.00440	0.00111	mg/Kg	⊅	02/08/24 13:05	02/08/24 21:09	1
o-Xylene	0.000422	J	0.00220	0.000379	mg/Kg	☼	02/08/24 13:05	02/08/24 21:09	1
Xylenes, Total	<0.00111	U	0.00440	0.00111	mg/Kg	≎	02/08/24 13:05	02/08/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/08/24 13:05	02/08/24 21:09	1
1.4-Difluorobenzene (Surr)	102		70 - 130				02/08/24 13:05	02/08/24 21:09	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.5	U	55.1	16.5	mg/Kg	-	02/05/24 13:43	02/06/24 20:20	1
Diesel Range Organics (Over C10-C28)	490	В	55.1	16.5	mg/Kg	₩	02/05/24 13:43	02/06/24 20:20	1
Oll Range Organics (Over C28-C36)	<16.5	U	55.1	16.5	mg/Kg	₩	02/05/24 13:43	02/06/24 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				02/05/24 13:43	02/06/24 20:20	1
o-Terphenyl	112		70 - 130				02/05/24 13:43	02/06/24 20:20	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		5.02	0.397	mg/Kg			02/06/24 10:37	1

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Surrogate Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Per	cent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
20-11924-1	Seawolf 91H-9-7-23 Sidewall 1	73	87	
-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	120	101	
)-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	117	107	
-11924-2	Seawolf 91H-9-7-23 Sidewall 2	92	79	
11924-3	Seawolf 91H-9-7-23 Sidewall 3	95	82	
-11924-4	Seawolf 91H-9-7-23 Sidewall 4	91	77	
11924-5	Seawolf 91H-9-7-23 Bottom 1	84	83	
-11924-6	Seawolf 91H-9-7-23 Bottom 2	75	88	
-11924-7	Seawolf 91H-9-7-23 Bottom 3	78	90	
-11924-8	Seawolf 91H-9-7-23 Bottom 4	79	89	
-11924-9	Seawolf 91H-9-7-23 Bottom 5	81	84	
-11924-10	Seawolf 91H-9-7-23 Bottom 6	88	78	
11924-11	Seawolf 91H-9-7-23 Bottom 7	82	63 S1-	
11924-12	Seawolf 91H-9-7-23 Bottom 8	87	59 S1-	
11924-13	Seawolf 91H-9-7-23 Bottom 9	82	81	
11924-14	Seawolf 91H-9-7-23 Bottom 10	80	80	
11924-15	Seawolf 91H-9-7-23 Bottom 11	83	81	
11924-16	Seawolf 91H-9-7-23 Bottom 12	82	81	
11924-17	Seawolf 91H-9-7-23 Bottom 13	89	79	
11924-18	Seawolf 91H-9-7-23 Bottom 14	84	81	
11924-19	Seawolf 91H-9-7-23 Bottom 15	90	79	
11924-20	Seawolf 91H-9-7-23 Bottom 16	84	80	
11924-21	Seawolf 91H-9-7-23 Bottom 17	116	102	
880-72601/1-A	Lab Control Sample	120	93	
S 880-72659/1-A	Lab Control Sample	101	100	
SD 880-72601/2-A	Lab Control Sample Dup	115	94	
SD 880-72659/2-A	Lab Control Sample Dup	100	92	
880-72601/5-A	Method Blank	70	85	
880-72659/5-A	Method Blank	119	113	
O				
Surrogate Legend FB = 4-Bromofluorob				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_			Perc
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	147 S1+	126
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	140 S1+	107
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	137 S1+	105
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	164 S1+	142 S1+
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	145 S1+	125
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	148 S1+	125
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	149 S1+	124
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	138 S1+	118
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	153 S1+	127
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	138 S1+	119

Job ID: 820-11924-1

Surrogate Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Reco
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	146 S1+	127	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	133 S1+	116	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	157 S1+	134 S1+	
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	155 S1+	117	
820-11924-12 - RA	Seawolf 91H-9-7-23 Bottom 8	122	101	
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	148 S1+	126	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	143 S1+	124	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	154 S1+	132 S1+	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	156 S1+	135 S1+	
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	142 S1+	117	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	136 S1+	115	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	138 S1+	117	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	139 S1+	116	
820-11924-21	Seawolf 91H-9-7-23 Bottom 17	132 S1+	112	
LCS 880-72343/2-A	Lab Control Sample	97	95	
LCS 880-72383/2-A	Lab Control Sample	89	87	
LCS 880-72384/2-A	Lab Control Sample	103	100	
LCSD 880-72343/3-A	Lab Control Sample Dup	96	95	
LCSD 880-72383/3-A	Lab Control Sample Dup	94	89	
LCSD 880-72384/3-A	Lab Control Sample Dup	97	92	
MB 880-72343/1-A	Method Blank	161 S1+	141 S1+	
MB 880-72383/1-A	Method Blank	169 S1+	146 S1+	
MB 880-72384/1-A	Method Blank	189 S1+	164 S1+	
Surrogate Legend				

OTPH = o-Terphenyl

Released to Imaging: 10/8/2024 11:19:46 AM

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Client: Civil & Environmental Consultants Inc

Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: Seawolf 112 91H-On

Matrix: Solid

Analysis Batch: 72824

Lab Sample ID: MB 880-72601/5-A

Job ID: 820-11924-1

Client Sample ID: Method Blank

Prep Batch: /2601

Prep Type: Total/NA
Pron Ratch: 72601

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/07/24 16:52	02/11/24 18:39	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/07/24 16:52	02/11/24 18:39	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/07/24 16:52	02/11/24 18:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/07/24 16:52	02/11/24 18:39	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/07/24 16:52	02/11/24 18:39	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/07/24 16:52	02/11/24 18:39	1

MB MB %Recovery Qualifier Limits Prepared 70 - 130 70

4-Bromofluorobenzene (Surr) 02/07/24 16:52 02/11/24 18:39 1,4-Difluorobenzene (Surr) 85 70 - 130 02/07/24 16:52 02/11/24 18:39

Lab Sample ID: LCS 880-72601/1-A

Matrix: Solid

Surrogate

Analysis Batch: 72824

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 72601

Analyzed

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	
Toluene	0.100	0.1230		mg/Kg		123	70 - 130	
Ethylbenzene	0.100	0.1414	*+	mg/Kg		141	70 - 130	
m-Xylene & p-Xylene	0.200	0.2799	*+	mg/Kg		140	70 - 130	
o-Xylene	0.100	0.1379	*+	mg/Kg		138	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 120 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: LCSD 880-72601/2-A

Matrix: Solid

Analysis Batch: 72824

Client Sample ID: Lab Control Sample Dup **Prep Type: Total/NA**

Prep Batch: 72601

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	6	35
Toluene	0.100	0.1135		mg/Kg		114	70 - 130	8	35
Ethylbenzene	0.100	0.1291		mg/Kg		129	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2493		mg/Kg		125	70 - 130	12	35
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130	12	35

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 115 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 820-11924-1 MS

Matrix: Solid

Analysis Batch: 72824

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Prep Type: Total/NA

Prep Batch: 72601

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000538	U	0.139	0.1398		mg/Kg	<u></u>	101	70 - 130	
Toluene	<0.000637	U	0.139	0.1403		mg/Kg	₩	101	70 - 130	

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Dil Fac

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-11924-1 MS

Matrix: Solid

Analysis Batch: 72824

Lab Sample ID: 820-11924-1 MSD

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Prep Type: Total/NA

Prep Batch: 72601

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.000789	U *+	0.139	0.1624		mg/Kg	-	117	70 - 130	
m-Xylene & p-Xylene	<0.00141	U *+	0.278	0.3218		mg/Kg	₩	116	70 - 130	
o-Xylene	<0.000480	U *+	0.139	0.1561		mg/Kg	₽	112	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Matrix: Solid

Analysis Batch: 72824

Prep Type: Total/NA

Prep Batch: 72601

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000538	U	0.138	0.1551		mg/Kg	-	112	70 - 130	10	35
Toluene	< 0.000637	U	0.138	0.1533		mg/Kg	☼	111	70 - 130	9	35
Ethylbenzene	<0.000789	U *+	0.138	0.1703		mg/Kg	☼	123	70 - 130	5	35
m-Xylene & p-Xylene	<0.00141	U *+	0.276	0.3481		mg/Kg	₽	126	70 - 130	8	35
o-Xylene	<0.000480	U *+	0.138	0.1685		mg/Kg	☼	122	70 - 130	8	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-72659/5-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72659

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/08/24 13:05	02/08/24 14:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/08/24 13:05	02/08/24 14:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/08/24 13:05	02/08/24 14:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/08/24 13:05	02/08/24 14:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/08/24 13:05	02/08/24 14:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/08/24 13:05	02/08/24 14:24	1

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119	70 - 130	02/08/24 13:05	02/08/24 14:24	1
1.4-Difluorobenzene (Surr)	113	70 - 130	02/08/24 13:05	02/08/24 14:24	1

Lab Sample ID: LCS 880-72659/1-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72659

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.06529	*_	mg/Kg		65	70 - 130	
Toluene	0.100	0.07720		mg/Kg		77	70 - 130	
Ethylbenzene	0.100	0.07542		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	0.200	0.1441		mg/Kg		72	70 - 130	

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-72659/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-72659/2-A

Analysis Batch: 72586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72659

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.07388 mg/Kg 74 70 - 130

%Rec

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 101 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 72586

Prep Type: Total/NA

Prep Batch: 72659

%Rec **RPD** Limits **RPD** Limit

Spike LCSD LCSD Added Result Qualifier Analyte Unit D %Rec Benzene 0.100 0.08369 mg/Kg 84 70 - 130 25 35 Toluene 0.100 0.08169 mg/Kg 82 70 - 130 6 35 Ethylbenzene 0.100 0.09071 mg/Kg 91 70 - 130 18 35 m-Xylene & p-Xylene 0.200 84 70 - 130 35 0.1671 mg/Kg 15 o-Xylene 0.100 0.08345 mg/Kg 83 70 - 130 12 35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 70 - 130 1,4-Difluorobenzene (Surr) 92 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-72343/1-A

Matrix: Solid

Analysis Batch: 72615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72343

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.60	J	50.0	15.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1
Diesel Range Organics (Over C10-C28)	15.83	J	50.0	15.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1

MB MB

%Recovery Qualifier Dil Fac Surrogate I imits Prepared Analyzed 1-Chlorooctane 161 S1+ 70 - 130 02/05/24 10:14 02/08/24 07:47 o-Terphenyl 141 S1+ 70 - 130 02/05/24 10:14 02/08/24 07:47

Lab Sample ID: LCS 880-72343/2-A

Matrix: Solid

Analysis Batch: 72615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 72343

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	811.1		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	872.0		mg/Kg		87	70 - 130	
C10-C28)								

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-72343/2-A

Lab Sample ID: LCSD 880-72343/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72343

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 97 70 - 130 o-Terphenyl 95 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 72615

Prep Batch: 72343 %Rec **RPD**

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 848.3 mg/Kg 85 70 - 130 4 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 876.8 mg/Kg 88 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	96	70 - 130
o-Terphenyl	95	70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72383

Lab Sample ID: MB 880-72383/1-A

Matrix: Solid

Analysis Batch: 72441

MB MB Result Qualifier RL MDL Unit Analyte D Prepared Analyzed Dil Fac 02/05/24 13:43 02/06/24 07:13 Gasoline Range Organics <15.0 U 50.0 15.0 mg/Kg (GRO)-C6-C10 50.0 Diesel Range Organics (Over 19.29 J 15.0 mg/Kg 02/05/24 13:43 02/06/24 07:13 C10-C28) Oll Range Organics (Over C28-C36) <15.0 U 50.0 15.0 mg/Kg 02/05/24 13:43 02/06/24 07:13

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	02/05/24 13:43	02/06/24 07:13	1
o-Terphenyl	146	S1+	70 - 130	02/05/24 13:43	02/06/24 07:13	1

Lab Sample ID: LCS 880-72383/2-A

Matrix: Solid

Analysis Batch: 72441

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 72383

LCS LCS Spike %Rec Added Result Qualifier %Rec Limits Analyte Unit 1000 1004 Gasoline Range Organics 100 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 885.4 mg/Kg 89 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qualified	r Limits
1-Chlorooctane	89	70 - 130
o-Terphenvl	87	70 - 130

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-72383/3-A

Matrix: Solid

Analysis Batch: 72441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72383 %Rec **RPD** Limits RPD Limit

Added Result Qualifier %Rec Analyte Unit Gasoline Range Organics 1000 998.8 mg/Kg 100 70 - 130 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 877.0 88 mg/Kg 70 - 13020

LCSD LCSD

Spike

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	89		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72384

Lab Sample ID: MB 880-72384/1-A

Matrix: Solid

Analysis Batch: 72441

MB MB Result Qualifier Analyte

RL **MDL** Unit Dil Fac Prepared Analyzed Gasoline Range Organics <15.0 U 50.0 15.0 mg/Kg 02/05/24 13:47 02/06/24 22:25 (GRO)-C6-C10 02/05/24 13:47 02/06/24 22:25 Diesel Range Organics (Over 18.99 J 50.0 15.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <15.0 U 50.0 02/05/24 13:47 02/06/24 22:25 15.0 mg/Kg

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	189	S1+	70 - 130	02/05/24 13:47	02/06/24 22:25	1
o-Terphenyl	164	S1+	70 - 130	02/05/24 13:47	02/06/24 22:25	1

Lab Sample ID: LCS 880-72384/2-A

Matrix: Solid

Analysis Batch: 72441

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 72384

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Gasoline Range Organics 1000 1082 mg/Kg 108 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1041 mg/Kg 104 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-72384/3-A

Matrix: Solid

Analysis Batch: 72441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 72384

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1079 mg/Kg 108 70 - 130 0 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 928.7 93 70 - 130 20 mg/Kg

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C10-C28)

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-72384/3-A

Lab Sample ID: 820-11924-1 MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 72441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72384

LCSD LCSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 97 70 - 130 o-Terphenyl 92 70 - 130

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Prep Type: Total/NA

Prep Batch: 72384

Analysis Batch: 72441

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <20.8 U 1400 1320 mg/Kg ☼ 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 253 B 1400 1703 mg/Kg 104 70 - 130 ₿

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 140 S1+ 70 - 130 70 - 130

o-Terphenyl 107

Lab Sample ID: 820-11924-1 MSD Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Matrix: Solid

Analysis Batch: 72441

Diesel Range Organics (Over

Prep Type: Total/NA

102

Prep Batch: 72384

Prep Type: Soluble

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Analyte Unit D %Rec I imit <20.8 U 70 - 130 Gasoline Range Organics 1400 1307 mg/Kg Ö 94 20 (GRO)-C6-C10 1400 70 - 130

1683

mg/Kg

C10-C28)

MSD MSD Surrogate %Recovery Qualifier

Limits 1-Chlorooctane S1+ 70 - 130 137 70 - 130 o-Terphenyl 105

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72302/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 72360

MB MB

253 B

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 5.00 Chloride <0.395 U 0.395 mg/Kg 02/05/24 12:39

Lab Sample ID: LCS 880-72302/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72360

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 242.1 97 mq/Kq 90 - 110

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-72302/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72360

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	i
Chloride	250	243.3		mg/Kg		97	90 - 110	0	20	

Lab Sample ID: MB 880-72365/1-A **Client Sample ID: Method Blank Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 72452

MB MB

Analyte	Result	Qualifier	RL	MDL U	Jnit D	Prepared	Analyzed	Dil Fac
Chloride	< 0.395	U	5.00	0.395 m	ng/Kg		02/06/24 11:28	1

Lab Sample ID: LCS 880-72365/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72452

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	235.9		mg/Kg	_	94	90 - 110	

Lab Sample ID: LCSD 880-72365/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72452

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	237.2		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 820-11924-1 MS Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72452

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	959	F1	251	1153	F1	ma/Ka	_	77	90 - 110	

Lab Sample ID: 820-11924-1 MSD Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72452

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	959	F1	251	1160	F1	mg/Kg	_	80	90 - 110	1	20

Lab Sample ID: 820-11924-11 MS Client Sample ID: Seawolf 91H-9-7-23 Bottom 7 **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 72452

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Limits Unit D %Rec 511 F1 253 676.2 F1 Chloride mg/Kg 65 90 - 110

Lab Sample ID: 820-11924-11 MSD Client Sample ID: Seawolf 91H-9-7-23 Bottom 7 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72452

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	511	F1	253	681.1	F1	mg/Kg		67	90 - 110	1	20

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

GC VOA

Analysis Batch: 72586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-21	Seawolf 91H-9-7-23 Bottom 17	Total/NA	Solid	8021B	72659
MB 880-72659/5-A	Method Blank	Total/NA	Solid	8021B	72659
LCS 880-72659/1-A	Lab Control Sample	Total/NA	Solid	8021B	72659
LCSD 880-72659/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72659

Prep Batch: 72601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	5035	
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Total/NA	Solid	5035	
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Total/NA	Solid	5035	
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Total/NA	Solid	5035	
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Total/NA	Solid	5035	
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Total/NA	Solid	5035	
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Total/NA	Solid	5035	
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Total/NA	Solid	5035	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Total/NA	Solid	5035	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Total/NA	Solid	5035	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Total/NA	Solid	5035	
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Total/NA	Solid	5035	
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Total/NA	Solid	5035	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Total/NA	Solid	5035	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Total/NA	Solid	5035	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Total/NA	Solid	5035	
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Total/NA	Solid	5035	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Total/NA	Solid	5035	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Total/NA	Solid	5035	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Total/NA	Solid	5035	
MB 880-72601/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72601/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72601/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	5035	
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	5035	

Prep Batch: 72659

Lab Sample ID 820-11924-21	Client Sample ID Seawolf 91H-9-7-23 Bottom 17	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-72659/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72659/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72659/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 72824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8021B	72601
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Total/NA	Solid	8021B	72601
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Total/NA	Solid	8021B	72601
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Total/NA	Solid	8021B	72601
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Total/NA	Solid	8021B	72601
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Total/NA	Solid	8021B	72601
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Total/NA	Solid	8021B	72601
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Total/NA	Solid	8021B	72601
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Total/NA	Solid	8021B	72601

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

GC VOA (Continued)

Analysis Batch: 72824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Total/NA	Solid	8021B	72601
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Total/NA	Solid	8021B	72601
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Total/NA	Solid	8021B	72601
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Total/NA	Solid	8021B	72601
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Total/NA	Solid	8021B	72601
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Total/NA	Solid	8021B	72601
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Total/NA	Solid	8021B	72601
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Total/NA	Solid	8021B	72601
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Total/NA	Solid	8021B	72601
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Total/NA	Solid	8021B	72601
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Total/NA	Solid	8021B	72601
MB 880-72601/5-A	Method Blank	Total/NA	Solid	8021B	72601
LCS 880-72601/1-A	Lab Control Sample	Total/NA	Solid	8021B	72601
LCSD 880-72601/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72601
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8021B	72601
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8021B	72601

GC Semi VOA

Prep Batch: 72343

Lab Sample ID 820-11924-12 - RA	Client Sample ID Seawolf 91H-9-7-23 Bottom 8	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-72343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72343/2-	A Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72343/3	B-A Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 72383

Lab Sample ID 820-11924-21	Client Sample ID Seawolf 91H-9-7-23 Bottom 17	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-72383/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72383/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 72384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015NM Prep	
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Total/NA	Solid	8015NM Prep	
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Total/NA	Solid	8015NM Prep	
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Total/NA	Solid	8015NM Prep	
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Total/NA	Solid	8015NM Prep	
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Total/NA	Solid	8015NM Prep	
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Total/NA	Solid	8015NM Prep	
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Total/NA	Solid	8015NM Prep	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Total/NA	Solid	8015NM Prep	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Total/NA	Solid	8015NM Prep	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Total/NA	Solid	8015NM Prep	
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Total/NA	Solid	8015NM Prep	
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Total/NA	Solid	8015NM Prep	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Total/NA	Solid	8015NM Prep	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Total/NA	Solid	8015NM Prep	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Total/NA	Solid	8015NM Prep	

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

GC Semi VOA (Continued)

Prep Batch: 72384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Total/NA	Solid	8015NM Prep	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Total/NA	Solid	8015NM Prep	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Total/NA	Solid	8015NM Prep	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Total/NA	Solid	8015NM Prep	
MB 880-72384/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72384/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015NM Prep	
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015B NM	72384	
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Total/NA	Solid	8015B NM	72384	
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Total/NA	Solid	8015B NM	72384	
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Total/NA	Solid	8015B NM	72384	
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Total/NA	Solid	8015B NM	72384	
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Total/NA	Solid	8015B NM	72384	
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Total/NA	Solid	8015B NM	72384	
820-11924-8 Seawolf 91H-9-7-23 Bottom 4		Total/NA	Solid	8015B NM	72384	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Total/NA	Solid	8015B NM	72384	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Total/NA	Solid	8015B NM 8015B NM	72384 72384	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Total/NA	Solid			
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Total/NA	Solid	8015B NM	72384	
820-11924-13	-11924-13 Seawolf 91H-9-7-23 Bottom 9		Solid	8015B NM	72384	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Total/NA	Solid	8015B NM	72384	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Total/NA	Solid	8015B NM	72384	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Total/NA	Solid	8015B NM	72384	
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Total/NA	Solid	8015B NM	72384	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Total/NA	Solid	8015B NM	72384	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Total/NA	Solid	8015B NM	72384	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Total/NA	Solid	8015B NM	72384	
820-11924-21	Seawolf 91H-9-7-23 Bottom 17	Total/NA	Solid	8015B NM	72383	
MB 880-72383/1-A	Method Blank	Total/NA	Solid	8015B NM	72383	
MB 880-72384/1-A	Method Blank	Total/NA	Solid	8015B NM	72384	
LCS 880-72383/2-A	Lab Control Sample	Total/NA	Solid Solid	8015B NM	72383	
LCS 880-72384/2-A	Lab Control Sample Total/NA	Total/NA		8015B NM	72384	
LCSD 880-72383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72383	
LCSD 880-72384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72384	
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015B NM	72384	
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	8015B NM	72384	

Analysis Batch: 72615

Lab Sample ID 820-11924-12 - RA	Client Sample ID Seawolf 91H-9-7-23 Bottom 8	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 72343
MB 880-72343/1-A	Method Blank	Total/NA	Solid	8015B NM	72343
LCS 880-72343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72343
LCSD 880-72343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72343

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

HPLC/IC

Leach Batch: 72302

Lab Sample ID 820-11924-21	Client Sample ID Seawolf 91H-9-7-23 Bottom 17	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-72302/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72302/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72302/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 72360

Lab Sample ID 820-11924-21	Client Sample ID Seawolf 91H-9-7-23 Bottom 17	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 72302
MB 880-72302/1-A	Method Blank	Soluble	Solid	300.0	72302
LCS 880-72302/2-A	Lab Control Sample	Soluble	Solid	300.0	72302
LCSD 880-72302/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72302

Leach Batch: 72365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Soluble	Solid	DI Leach	
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Soluble	Solid	DI Leach	
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Soluble	Solid	DI Leach	
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Soluble	Solid	DI Leach	
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Soluble	Solid	DI Leach	
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Soluble	Solid	DI Leach	
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Soluble	Solid	DI Leach	
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Soluble	Solid	DI Leach	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Soluble	Solid	DI Leach	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Soluble	Solid	DI Leach	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Soluble	Solid	DI Leach	
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Soluble	Solid	DI Leach	
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Soluble	Solid	DI Leach	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Soluble	Solid	DI Leach	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Soluble	Solid	DI Leach	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Soluble	Solid	DI Leach	
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Soluble	Solid	DI Leach	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Soluble	Solid	DI Leach	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Soluble	Solid	DI Leach	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Soluble	Solid	DI Leach	
MB 880-72365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Soluble	Solid	DI Leach	
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1	Soluble	Solid	DI Leach	
820-11924-11 MS	Seawolf 91H-9-7-23 Bottom 7	Soluble	Solid	DI Leach	
820-11924-11 MSD	Seawolf 91H-9-7-23 Bottom 7	Soluble	Solid	DI Leach	

Analysis Batch: 72452

Released to Imaging: 10/8/2024 11:19:46 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Soluble	Solid	300.0	72365
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Soluble	Solid	300.0	72365
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Soluble	Solid	300.0	72365
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Soluble	Solid	300.0	72365
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Soluble	Solid	300.0	72365
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Soluble	Solid	300.0	72365
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Soluble	Solid	300.0	72365

Eurofins Lubbock

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

HPLC/IC (Continued)

Analysis Batch: 72452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Soluble	Solid	300.0	72365
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Soluble	Solid	300.0	72365
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Soluble	Solid	300.0	72365
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Soluble	Solid	300.0	72365
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Soluble	Solid	300.0	72365
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Soluble	Solid	300.0	72365
320-11924-14 Seawolf 91H-9-7-23 Bottom 10		Soluble	Solid	300.0	72365
820-11924-15 Seawolf 91H-9-7-23 Bottom 11		Soluble	Solid	300.0	72365
320-11924-16 Seawolf 91H-9-7-23 Bottom 12		Soluble	Solid	300.0	72365
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Soluble	Solid	300.0	72365
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Soluble	Solid	300.0	72365
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Soluble	Solid	300.0	72365
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Soluble	Solid	300.0	72365
MB 880-72365/1-A	Method Blank	Soluble	Solid	300.0	72365
LCS 880-72365/2-A	Lab Control Sample	Soluble	Solid	300.0	72365
LCSD 880-72365/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72365
820-11924-1 MS	Seawolf 91H-9-7-23 Sidewall 1	Soluble	Solid	300.0	72365
820-11924-1 MSD	Seawolf 91H-9-7-23 Sidewall 1 Soluble	Soluble	Solid	300.0	72365
820-11924-11 MS	Seawolf 91H-9-7-23 Bottom 7	Soluble Solid 300.0	300.0	72365	
820-11924-11 MSD	Seawolf 91H-9-7-23 Bottom 7	Soluble	Solid	300.0	72365

General Chemistry

Analysis Batch: 72304

Lab Sample ID 820-11924-3	Client Sample ID Seawolf 91H-9-7-23 Sidewall 3	Prep Type Total/NA	Matrix Solid	Method D2216	Prep Batch
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Total/NA	Solid	D2216	
820-11924-21	Seawolf 91H-9-7-23 Bottom 17	Total/NA	Solid	D2216	
MB 880-72304/1	Method Blank	Total/NA	Solid	D2216	

Analysis Batch: 72320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	D2216	
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Total/NA	Solid	D2216	
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Total/NA	Solid	D2216	
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Total/NA	Solid	D2216	
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Total/NA	Solid	D2216	
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Total/NA	Solid	D2216	
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Total/NA	Solid	D2216	
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Total/NA	Solid	D2216	
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Total/NA	Solid	D2216	
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Total/NA	Solid	D2216	
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Total/NA	Solid	D2216	
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Total/NA	Solid	D2216	
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Total/NA	Solid	D2216	
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Total/NA	Solid	D2216	
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Total/NA	Solid	D2216	
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Total/NA	Solid	D2216	
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Total/NA	Solid	D2216	
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Total/NA	Solid	D2216	
MB 880-72320/1	Method Blank	Total/NA	Solid	D2216	

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

General Chemistry (Continued)

Analysis Batch: 72320 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11924-1 DU	Seawolf 91H-9-7-23 Sidewall 1	Total/NA	Solid	D2216	
820-11924-13 DU	Seawolf 91H-9-7-23 Bottom 9	Total/NA	Solid	D2216	

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Date Collected: 01/31/24 19:37 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 11:42	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 1

Date Collected: 01/31/24 19:37 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-1

Matrix: Solid Percent Solids: 71.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 19:01	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/06/24 23:28	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 2

Date Collected: 01/31/24 19:38 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 11:56	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 2

Date Collected: 01/31/24 19:38

Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-2 Matrix: Solid Percent Solids: 81.8

Batch Batch Dil Initial Final Batch Prepared Method Type **Amount** Number or Analyzed **Prep Type** Run **Factor** Amount Analyst Lab 5035 Total/NA Prep 5.02 g 5 mL 72601 02/07/24 16:52 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 72824 02/11/24 19:22 MNR **EET MID** Total/NA Prep 8015NM Prep 9.90 q 10 mL 72384 02/05/24 13:47 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 72441 02/07/24 00:32 SM **FFT MID**

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 3

Date Collected: 02/01/24 15:39

Date Received: 02/02/24 10:11

Lab	Sample	ID:	820-11924-3
			Matrix: Calid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:00	CH	EET MID
Total/NA	Analysis	D2216		1			72304	02/04/24 12:39	CH	EET MID

Job ID: 820-11924-1

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 3

Date Collected: 02/01/24 15:39 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-3

Matrix: Solid Percent Solids: 81.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 19:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 00:53	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 4

Date Collected: 01/31/24 19:41 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		5			72452	02/06/24 12:05	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Sidewall 4

Date Collected: 01/31/24 19:41 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-4

Lab Sample ID: 820-11924-5

Matrix: Solid

Matrix: Solid

Percent Solids: 63.3

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8021B	Run	Dil Factor	Initial Amount 5.01 g 5 mL	Final Amount 5 mL	Batch Number 72601 72824	Prepared or Analyzed 02/07/24 16:52 02/11/24 20:03	Analyst MNR MNR	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.07 g 1 uL	10 mL 1 uL	72384 72441	02/05/24 13:47 02/07/24 01:14		EET MID EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 1

Date Collected: 02/01/24 15:37

Date Received: 02/02/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:10	СН	EET MID
Total/NA	Analysis	D2216		1			72304	02/04/24 12:39	СН	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 1

Date Collected: 02/01/24 15:37

Date Received: 02/02/24 10:11

72304	02/04/24 12:39	СН	EET MID
	Lab Sample	ID:	820-11924-5
	•		Matrix: Solid
	P	erce	nt Solids: 77.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 20:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 01:35	SM	EET MID

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 2

Date Collected: 01/31/24 19:48 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-6

Matrix: Solid

Lab Sample ID: 820-11924-6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:24	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 2

Date Collected: 01/31/24 19:48

Matrix: Solid Date Received: 02/02/24 10:11 Percent Solids: 65.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 20:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 01:56	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 3 Lab Sample ID: 820-11924-7

Date Collected: 01/31/24 19:50

Date Received: 02/02/24 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:28	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 3 Lab Sample ID: 820-11924-7

Date Collected: 01/31/24 19:50

Date Received: 02/02/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	<u> </u>		5.03 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 21:06	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 02:18	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 4 Lab Sample ID: 820-11924-8

Date Collected: 01/31/24 19:52 Date Received: 02/02/24 10:11

Batch Batch Dil Initial Final **Batch** Prepared Method Amount Number or Analyzed **Prep Type** Type Run **Factor** Amount Analyst Lab DI Leach Soluble Leach 5.03 g 50 mL 72365 02/05/24 11:45 SMC **EET MID** Soluble 300.0 72452 02/06/24 12:33 CH Analysis **EET MID** 1 Total/NA Analysis D2216 1 72320 02/05/24 09:45 SMC **EET MID**

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 73.8

Client Sample ID: Seawolf 91H-9-7-23 Bottom 4

Date Collected: 01/31/24 19:52 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-8

Matrix: Solid

Percent Solids: 82.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 21:27	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 02:40	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 5

Batch

Method

DI Leach

300.0

D2216

Run

Date Collected: 01/31/24 19:54 Date Received: 02/02/24 10:11

Prep Type

Soluble

Soluble

Total/NA

Batch

Type

Leach

Analysis

Analysis

Lab Sample ID: 820-11924-9 **Matrix: Solid**

Dil Initial Final Batch Prepared or Analyzed **Factor Amount** Amount Number Analyst Lab 4.97 g 50 mL 72365 02/05/24 11:45 SMC EET MID 72452 02/06/24 12:38 CH **EET MID** 1 72320 02/05/24 09:45 SMC **EET MID**

Client Sample ID: Seawolf 91H-9-7-23 Bottom 5

Date Collected: 01/31/24 19:54 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-9

Lab Sample ID: 820-11924-10

Matrix: Solid Percent Solids: 70.5

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 72601 02/07/24 16:52 MNR EET MID Total/NA Analysis 8021B 5 mL 72824 02/11/24 21:47 MNR **EET MID** 5 mL Total/NA 8015NM Prep 10 mL 72384 Prep 9.95 g 02/05/24 13:47 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 72441 02/07/24 03:01 SM **EET MID**

Client Sample ID: Seawolf 91H-9-7-23 Bottom 6

Date Collected: 01/31/24 19:58

Date Received: 02/02/24 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:42	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Clien

Date Collected: 01/31/24 19:58

Date Received: 02/02/24 10:11

nt Sample	ID: Seav	volf 91H-9-7-2	23 Bot	tom 6			Li	ab Sample I	D: 820-1	11924-10	
/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID	
ble	Analysis	300.0		1			72452	02/06/24 12:42	CH	EET MID	
ble	Leach	DI Leach			5.01 g	50 mL	72365	02/05/24 11:45	SMC	EET MID	
										===:	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 22:08	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 03:22	SM	EET MID

Eurofins Lubbock

Matrix: Solid Percent Solids: 71.6

Matrix: Solid

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 7

Date Collected: 01/31/24 20:00 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 12:47	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 7

Date Collected: 01/31/24 20:00 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-11 **Matrix: Solid**

Percent Solids: 67.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 23:31	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 04:04	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 8

Date Collected: 01/31/24 20:02 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-12

Matrix: Solid

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab SMC Soluble Leach DI Leach 4.97 g 50 mL 72365 02/05/24 11:45 EET MID Soluble Analysis 300.0 72452 02/06/24 13:01 CH **EET MID** Total/NA Analysis D2216 72320 02/05/24 09:45 SMC **EET MID**

Client Sample ID: Seawolf 91H-9-7-23 Bottom 8

Date Collected: 01/31/24 20:02 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-12 **Matrix: Solid** Percent Solids: 66.7

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/11/24 23:52	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 04:25	SM	EET MID
Total/NA	Prep	8015NM Prep	RA		10.06 g	10 mL	72343	02/05/24 10:14	TKC	EET MID
Total/NA	Analysis	8015B NM	RA	1	1 uL	1 uL	72615	02/08/24 11:26	SM	EET MID

-	
Client Sample ID: Seawolf 91H-9-7-23 Bottom 9	Lab Sample ID: 820-11924-13
Date Collected: 01/31/24 20:03	Matrix: Solid
Date Received: 02/02/24 10:11	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 13:05	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 9

Date Collected: 01/31/24 20:03 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-13

Matrix: Solid Percent Solids: 74.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 00:12	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 04:46	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 10

Date Collected: 01/31/24 20:05 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-14 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 13:19	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 10

Date Collected: 01/31/24 20:05 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-14 **Matrix: Solid**

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 00:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 05:07	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 11

Date Collected: 01/31/24 20:07 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-15 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		1			72452	02/06/24 13:24	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seaw

Date Collected: 01/31/24 20:07

Date Received: 02/02/24 10:11

0:07			•	Matrix: Solid
wolf 91H-9-7-23 Bo	ottom 11	Lá	ab Sample ID: 820	-11924-15
D2216	1	72320	02/05/24 09:45 SMC	EET MID
300.0	•	72402	02/00/24 13:24 011	LL I WIID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 00:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 05:29	SM	EET MID

Eurofins Lubbock

Percent Solids: 72.7

Client Sample ID: Seawolf 91H-9-7-23 Bottom 12

Date Collected: 01/31/24 20:10 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-16

Matrix: Solid

Batch Dil Initial Batch Final Prepared Method Number or Analyzed Analyst **Prep Type** Type Run **Factor** Amount Amount Lab Soluble Leach DI Leach 50 mL 72365 02/05/24 11:45 SMC EET MID 4.99 g Soluble 300.0 Analysis 72452 02/06/24 13:29 CH **EET MID** 1 Total/NA Analysis D2216 72320 02/05/24 09:45 SMC **EET MID**

Client Sample ID: Seawolf 91H-9-7-23 Bottom 12

Date Collected: 01/31/24 20:10 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-16

Lab Sample ID: 820-11924-17

Lab Sample ID: 820-11924-17

Lab Sample ID: 820-11924-18

Matrix: Solid Percent Solids: 72.9

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 84.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 01:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 05:49	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 13

Date Collected: 01/31/24 20:12 Date Received: 02/02/24 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		5			72452	02/06/24 13:33	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 13

Date Collected: 01/31/24 20:12

Date Received: 02/02/24 10:11

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 01:34	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 06:10	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 14

Date Collected: 01/31/24 20:14

Released to Imaging: 10/8/2024 11:19:46 AM

Date Received: 02/02/24 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		5			72452	02/06/24 13:38	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	FET MID

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 14

Date Collected: 01/31/24 20:14 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-18

Matrix: Solid

Percent Solids: 65.2

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 79.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 01:54	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 06:32	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 15

Date Collected: 01/31/24 20:16 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-19

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		5			72452	02/06/24 13:43	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 15

Date Collected: 01/31/24 20:16

Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-19 **Matrix: Solid** Percent Solids: 88.4

Lab Sample ID: 820-11924-20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 02:15	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 06:53	SM	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 16

Date Collected: 01/31/24 20:18

Date Received: 02/02/24 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	72365	02/05/24 11:45	SMC	EET MID
Soluble	Analysis	300.0		5			72452	02/06/24 13:47	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID

Date Collected: 01/31/24 20:18

Date Received: 02/02/24 10:11

Prep Type Soluble	Type Leach	Method DI Leach	Run	Factor	Amount 4.97 g	Amount 50 mL	Number 72365	or Analyzed 02/05/24 11:45	Analyst SMC	EET MID
Soluble	Analysis	300.0		5	· ·		72452	02/06/24 13:47	CH	EET MID
Total/NA	Analysis	D2216		1			72320	02/05/24 09:45	SMC	EET MID
Client Sam	ple ID: Sea	wolf 91H-9	-7-23 Bo		La	b Sample I	D: 820-	11924-20		

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	72601	02/07/24 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72824	02/12/24 02:35	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	72384	02/05/24 13:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/07/24 07:14	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Client Sample ID: Seawolf 91H-9-7-23 Bottom 17

Date Collected: 01/31/24 20:20 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-21

Matrix: Solid

Job ID: 820-11924-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72302	02/06/24 10:00	CH	EET MID
Soluble	Analysis	300.0		1			72360	02/06/24 10:37	CH	EET MID
Total/NA	Analysis	D2216		1			72304	02/04/24 12:39	СН	EET MID

Client Sample ID: Seawolf 91H-9-7-23 Bottom 17

Date Collected: 01/31/24 20:20 Date Received: 02/02/24 10:11

Lab Sample ID: 820-11924-21 **Matrix: Solid** Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	72659	02/08/24 13:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72586	02/08/24 21:09	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72383	02/05/24 13:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72441	02/06/24 20:20	SM	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 91H-On

Job ID: 820-11924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-11924-1	Seawolf 91H-9-7-23 Sidewall 1	Solid	01/31/24 19:37	02/02/24 10:11
820-11924-2	Seawolf 91H-9-7-23 Sidewall 2	Solid	01/31/24 19:38	02/02/24 10:11
820-11924-3	Seawolf 91H-9-7-23 Sidewall 3	Solid	02/01/24 15:39	02/02/24 10:11
820-11924-4	Seawolf 91H-9-7-23 Sidewall 4	Solid	01/31/24 19:41	02/02/24 10:11
820-11924-5	Seawolf 91H-9-7-23 Bottom 1	Solid	02/01/24 15:37	02/02/24 10:11
820-11924-6	Seawolf 91H-9-7-23 Bottom 2	Solid	01/31/24 19:48	02/02/24 10:11
820-11924-7	Seawolf 91H-9-7-23 Bottom 3	Solid	01/31/24 19:50	02/02/24 10:11
820-11924-8	Seawolf 91H-9-7-23 Bottom 4	Solid	01/31/24 19:52	02/02/24 10:11
820-11924-9	Seawolf 91H-9-7-23 Bottom 5	Solid	01/31/24 19:54	02/02/24 10:11
820-11924-10	Seawolf 91H-9-7-23 Bottom 6	Solid	01/31/24 19:58	02/02/24 10:11
820-11924-11	Seawolf 91H-9-7-23 Bottom 7	Solid	01/31/24 20:00	02/02/24 10:11
820-11924-12	Seawolf 91H-9-7-23 Bottom 8	Solid	01/31/24 20:02	02/02/24 10:11
820-11924-13	Seawolf 91H-9-7-23 Bottom 9	Solid	01/31/24 20:03	02/02/24 10:11
820-11924-14	Seawolf 91H-9-7-23 Bottom 10	Solid	01/31/24 20:05	02/02/24 10:11
820-11924-15	Seawolf 91H-9-7-23 Bottom 11	Solid	01/31/24 20:07	02/02/24 10:11
820-11924-16	Seawolf 91H-9-7-23 Bottom 12	Solid	01/31/24 20:10	02/02/24 10:11
820-11924-17	Seawolf 91H-9-7-23 Bottom 13	Solid	01/31/24 20:12	02/02/24 10:11
820-11924-18	Seawolf 91H-9-7-23 Bottom 14	Solid	01/31/24 20:14	02/02/24 10:11
820-11924-19	Seawolf 91H-9-7-23 Bottom 15	Solid	01/31/24 20:16	02/02/24 10:11
820-11924-20	Seawolf 91H-9-7-23 Bottom 16	Solid	01/31/24 20:18	02/02/24 10:11
820-11924-21	Seawolf 91H-9-7-23 Bottom 17	Solid	01/31/24 20:20	02/02/24 10:11

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Loc: 820

Oklahoma City

State, Zip:

Phone:

OK, 73142

Custody Seals Intact:

Δ Yes Λ No

Custody Seal No .:

Received by OCD: 8/20/2024 10:25:13 AM

Billing: Dale Woodall Dale. Woodall@dvn.com Devon Energy 575-748-1838 Chain of Custody Record

'and 🕸 eurofins 11924 **Environment Testing** Sampler: N. Shepherd Carrier Tracking No(s): Richter, Travis W 880-8180-1150.1 State of Origin: Travis, Richter@et.eurofinsus.com Page 1 of 4 **Analysis Requested** Civil & Environmental Consultants Inc Due Date Requested: Preservation Codes: 4700 Gaillardia Parkway Suite 101 M ~ Hexane A - HCL N - None TAT Requested (days): B - NaOH O - AsNaO2 2 days C - Zn Acetate P - Na2O4S D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3 F - MeOH PO#: 335-562 S - H2SO4 Phone:
800-365-2324(Tel)

Email:
Lcampbell@cecinc.com,@cecinc.com

Project Name:
Saawolf 112 91H - on G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone WO# 2H2616721223252 V - MCAA J - DI Water W - pH 4-5 Y - Trizma L-EDA Z - other (specify) 88001737 Other: SSOW# Fotal Number Matrix Sample (W=water, Type Sample (C=comp. Special Instructions/Note: Sample Date Time G=grab) BT=Tissue, A=Air Sample Identification Preservation Code: Seawolf 91H-9-7-23 Sidewall 1 1/11/24 1937 Comp Seawolf 91H-9-7-23 Sidewall Z 1/31/24 1938 Comp Solid Seawolf 91H-9-7-23 Sidewall 1/31/24 1941 Comp Solid Seawolf 91H-9-7-27 Bottom 2 Comp Solid Spawolf 99 H-9-7-23 Bottom 3 Como Solid Seawolf 914-9-7-23 Bottom 4 1/31/24 1995 COMP Seawolf 91H-9-7-23 Bottom 5 1/3/24 1954 Solid Seawolf 91H-9-7-23 Bottom 6 Solid Seave | f 914-9-7-23 Bottom 7 2000 Comp Segrelf 91H-9-7-23 Bettom 8 2002 Lomo Solid Sequelf 91H-9-7-23 Bottom 1/31/24/2003 Comp Solid Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Archive For Return To Client Disposal By Lab Months

Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Method of Shipment Empty Kit Relinquished by: Time: Received by Company 212/24 10:11 Company Date/Time: Company

Ver: 01/16/2019





Cooler Temperature(s) °C and Other Remarks:







Eurofins Midland

1211 W. Florida Ave

Midland, TX 79701 Phone (432) 704-5440 Received by OCD: 8/20/2024 10:25:13 AM

Billing: Dale Woodall Dale Woodall@dvn.com
Devon Energy 575 748 1838
Chain of Custody Record

💸 eurofins **Environment Testing**

Client Information				ab PM: lichter,	vi: er, Travis W				Carrier Tracking No(s):				COC No: 880-8180-1150.1			
Client Contact:	Phone: 918 L	577 64	599	E-	Mail:					_	State of 0	Origin: A	IM		Page:	· · · · · · · · · · · · · · · · · · ·
Mr. Nick Shepherd Company:	110 -	721 0	PWSID:		ravis.R	icnter	get.et	rom	sus.co	om		7 V	/		Page 1 of 4 Job#:	
Civil & Environmental Consultants Inc								,	An	alysis R	equeste	d				
Address: 4700 Gaillardia Parkway Suite 101	Due Date Request	ed:													Preservation Cod	les: M - Hexane
City:	TAT Requested (d					1									A - HCL B - NaOH	N - None O - AsNaO2
Oklahoma City State, Zip:	2 do	ys													C - Zn Acetate D - Nitric Acid	P - Na2O4S
OK, 73142	Compliance Project	ct: ∆ Yes	Δ No				1								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 800-365-2324(Tel) nshepherd	PO#: 3200-020 33	5-56	7												G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Phone: 800-365-2324(Tel) Email: Lcampbell@cecinc.com, @cecinc.com Project Name: Seawolf 112 914 - on		3252			s or N	(O)								و	I - Ice J - DI Water K - EDTA	U - Acetone V - MCAA W - pH 4-5
Project Name: Seawolf 112 91H-on	Project #: 88001737				و(ک	Chloride	Ŧ		- Moisture					Italne	L - EDA	Y - Trizma Z - other (specify)
Site:	SSOW#:				Samp	6.00	를 다		0G - M					of contai	Other:	
			Sample Type	Matrix (w=water,	101	Parform Mis/Mis 300 ORGFM 28D	8015MOD_NM - Full TPH	BTEX	MOISTURE_2540G					Number		
		Sample	(C=comp,	S≖solid, O=waste/oi	흥	Parform 300 ORG	15MC	8021B -	JIST					Total N		
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=	- A		-	1	-	100 Julio 17	00 E-69 0-50		82 N.S. 16	E	Special In	structions/Note:
Ca . 15 0 1 11 0 7 77 0 11 10	1/21/21	100		1	- 17	XN	_	-	N	10-10 L	S 55 75		100 E	-		
Seawolf 91H-9-7-23 Bottom 10		2005	Comp	Solid	-H	X	X	X	4	-	++					
Seawolf 92H-9-7-23 Bottom 11	1/31/24		Comp	Solid	\perp	12	X	X	X				\perp			
Jeanof 91H- 9-7-23 Bottom 12	1/31/24	2010	Comp	Solid		X	X	X	X					麗		
Seawolf 91 H-9-7-23 Rottom 13	1/31/24	2017	Comp	Solid		X	X	X	X							
Seawolf 91H-9-7-23 Bottom 14	1/31/24	2014	Camp	Solid		X	X	X	X							
		2016	COMP	Solid		Х	X	X	X							
Seawolf 91 H- 9-7-23 Bottom 16	1/31/24	2018	Comp	Solid		X	X	X	X					Z.E.		
Seawolf 91H-9-7-23 Bottom 17			Como	Solid		Х	X		X							
Seawolf 91H-9-7-23 Bottom 1	2/1/24	15 37	Comp	Solid		X	X	X	X							
Seawolf 91 H-9-7-23 sidewall 3	2/1/24	1539	Comp	Solid		×	X	X	X							
				Solid										200		
Possible Hazard Identification						Sampl	e Disp	osal	(Afe	e may be	assessed	if sam	oles are	retaine	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poisc	on B Unkn	own 🖳	Radiologica	1			Return			Ţ	Disposal	By Lab		Arch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)						Specia	l Instru	uction	ıs/QC	Requirem	ents:					
Empty Kit Relinquished by:		Date:			Tim	e:					Met	nod of Ship	pment:			
Relinquered by:	Date/Time: 2/2/24	10:17		Company	C	Rec	eived b	y a	U	12 1	delle	Da	te/Figne:	120	11011	Company
Relinquished by:	Date/Time:			Company		Rec	eived by	y:	1	1 0	70-	Da	te/Time:			Company
Relinquished by:	Date/Time:			Company		Rec	eived by	y:				Da	te/Time:			Company
Custody Seals Intact: Custody Seal No.:						Coo	ler Tem	peratu	re(s) °(and Other F	Remarks:	-0	2/-	0.	3/.	U.









Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc Job Number: 820-11924-1

Login Number: 11924 **List Source: Eurofins Lubbock**

List Number: 1

Creator: Triplett, Colby

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc Job Number: 820-11924-1

Login Number: 11924 **List Source: Eurofins Midland** List Number: 2 List Creation: 02/05/24 08:29 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell Civil & Environmental Consultants Inc 700 Cherrington Parkway Moon Township, Pennsylvania 15108

Generated 2/26/2024 4:29:06 PM

JOB DESCRIPTION

Seawolf 1 12 91H-on Seawolf 112 91H-on

JOB NUMBER

880-39766-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/26/2024 4:29:06 PM

Authorized for release by Travis Richter, Project Manager <u>Travis.Richter@et.eurofinsus.com</u> (281)794-7216

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Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 1 12 91H-on

Laboratory Job ID: 880-39766-1 SDG: Seawolf 112 91H-on

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on SDG: Seawolf 112 91H-on

Job ID: 880-39766-1

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Civil & Environmental Consultants Inc

Project: Seawolf 1 12 91H-on

Job ID: 880-39766-1

Job ID: 880-39766-1

Eurofins Midland

Job Narrative 880-39766-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/22/2024 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW 91H-Bottom 8-2 (880-39766-1).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-73289/1-A) and (880-39351-A-2-F MS). Evidence of matrix interference is present: therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73289 and analytical batch 880-73858 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW 91H-Bottom 8-2 (880-39766-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Client Sample Results

Client: Civil & Environmental Consultants Inc

Date Collected: 02/21/24 00:00

Analyte

Chloride

Client Sample ID: SW 91H-Bottom 8-2

Project/Site: Seawolf 1 12 91H-on

Result Qualifier

89.5

SDG: Seawolf 112 91H-on

Lab Sample ID: 880-39766-1

Matrix: Solid

Job ID: 880-39766-1

Method: SW846 8021B - Volatile Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000396	U	0.00205	0.000396	mg/Kg	— <u></u>	02/22/24 13:58	02/22/24 22:44	
Toluene	<0.000468	U	0.00205	0.000468		₩	02/22/24 13:58	02/22/24 22:44	
Ethylbenzene	<0.000580	U	0.00205	0.000580	mg/Kg	₽	02/22/24 13:58	02/22/24 22:44	
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	₽	02/22/24 13:58	02/22/24 22:44	
o-Xylene	< 0.000353	U	0.00205	0.000353	mg/Kg	₩	02/22/24 13:58	02/22/24 22:44	
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	₩	02/22/24 13:58	02/22/24 22:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				02/22/24 13:58	02/22/24 22:44	
1,4-Difluorobenzene (Surr)	106		70 - 130				02/22/24 13:58	02/22/24 22:44	
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Dies		nics (DRO)					02/22/24 13:58	02/22/24 22:44	
	sel Range Orga	nics (DRO) Qualifier		MDL	Unit	D	02/22/24 13:58 Prepared	02/22/24 22:44 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	Qualifier	(GC)		Unit mg/Kg	<u>D</u>			Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	Qualifier J	(GC)	15.5			Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 19.7	Qualifier J J	(GC) RL 51.6	15.5 15.5	mg/Kg	*	Prepared 02/22/24 10:49	Analyzed 02/22/24 14:18	Dil Fa
Method: SW846 8015B NM - Dies	sel Range Orga Result 19.7 28.1	Qualifier J U	(GC) RL 51.6	15.5 15.5	mg/Kg	— <u> </u>	Prepared 02/22/24 10:49 02/22/24 10:49	Analyzed 02/22/24 14:18 02/22/24 14:18	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 19.7 28.1 <15.5	Qualifier J U	(GC) RL 51.6 51.6 51.6	15.5 15.5	mg/Kg	— <u> </u>	Prepared 02/22/24 10:49 02/22/24 10:49 02/22/24 10:49	Analyzed 02/22/24 14:18 02/22/24 14:18 02/22/24 14:18	

RL

5.03

MDL Unit

0.397 mg/Kg

Prepared

Analyzed

02/22/24 10:26

Eurofins Midland

Released to Imaging: 10/8/2024 11:19:46 AM

Dil Fac

Surrogate Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-39766-1	SW 91H-Bottom 8-2	133 S1+	106
LCS 880-73289/1-A	Lab Control Sample	136 S1+	142 S1+
LCSD 880-73289/2-A	Lab Control Sample Dup	111	114
MB 880-73289/5-A	Method Blank	62 S1-	132 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptant
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-39766-1	SW 91H-Bottom 8-2	74	74	
880-39766-1 MS	SW 91H-Bottom 8-2	79	71	
880-39766-1 MSD	SW 91H-Bottom 8-2	83	74	
LCS 880-73703/2-A	Lab Control Sample	97	113	
LCSD 880-73703/3-A	Lab Control Sample Dup	85	97	
MB 880-73703/1-A	Method Blank	96	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1 SDG: Seawolf 112 91H-on

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73289/5-A

Lab Sample ID: LCS 880-73289/1-A

Lab Sample ID: LCSD 880-73289/2-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 73858

Analysis Batch: 73858

Analysis Batch: 73858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73289

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/15/24 15:58	02/22/24 18:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/15/24 15:58	02/22/24 18:16	1
o-Xylene	< 0.000344	U	0.00200	0.000344	mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/15/24 15:58	02/22/24 18:16	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130
1 4-Difluorobenzene (Surr)	132	S1+	70 - 130

02/15/24 15:58 02/22/24 18:16

Analyzed

02/22/24 18:16

Prepared

02/15/24 15:58

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 73289

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09374 mg/Kg 94 70 - 130 Toluene 0.100 0.09940 mg/Kg 99 70 - 130 0.100 Ethylbenzene 0.1018 mg/Kg 102 70 - 130 0.200 0.2090 105 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09283 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73289

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09160		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09885		mg/Kg		99	70 - 130	1	35
Ethylbenzene	0.100	0.09688		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2111		mg/Kg		106	70 - 130	1	35
o-Xylene	0.100	0.09978		mg/Kg		100	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Eurofins Midland

Dil Fac

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-73703/1-A

Matrix: Solid

Analysis Batch: 73819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73703

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		02/20/24 16:46	02/22/24 11:25	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		02/20/24 16:46	02/22/24 11:25	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/20/24 16:46	02/22/24 11:25	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/20/24 16:46	02/22/24 11:25	1
o-Terphenyl	101		70 - 130				02/20/24 16:46	02/22/24 11:25	1

Lab Sample ID: LCS 880-73703/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 73819

Analysis Batch: 73819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73703

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	990.6		mg/Kg		99	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1008		mg/Kg		101	70 - 130
C10-C28)							

%Recovery Qualifier

Lab Sample ID: LCSD 880-73703/3-A

Limits Surrogate 1-Chlorooctane 97 70 - 130 o-Terphenyl 113 70 - 130

LCS LCS

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73703

Spike LCSD LCSD RPD %Rec Limit Analyte Added Result Qualifier %Rec Limits RPD Unit D Gasoline Range Organics 1000 975.2 mg/Kg 98 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 939.9 mg/Kg 94 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	85	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: 880-39766-1 MS Client Sample ID: SW 91H-Bottom 8-2 **Matrix: Solid** Prep Type: Total/NA

C10-C28)

Analysis Batch: 73819

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	19.7	J	1040	872.9		mg/Kg	*	82	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	28.1	J	1040	999.8		mg/Kg	₩	93	70 - 130

Eurofins Midland

Prep Batch: 73703

Released to Imaging: 10/8/2024 11:19:46 AM

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-39766-1 MS **Matrix: Solid**

Analysis Batch: 73819

Client Sample ID: SW 91H-Bottom 8-2

Prep Type: Total/NA Prep Batch: 73703

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 79 70 - 130 o-Terphenyl 71 70 - 130

Client Sample ID: SW 91H-Bottom 8-2

Lab Sample ID: 880-39766-1 MSD **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73819

Prep Batch: 73703

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 19.7 J 1040 916.4 <u></u> 86 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1040 1105 103 28.1 J mg/Kg 70 - 13010 20 ₩ C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 83 70 - 130 1-Chlorooctane 74 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73751/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 73838

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride 5.00 <0.395 U 0.395 mg/Kg 02/22/24 08:11

Lab Sample ID: LCS 880-73751/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 73838

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 237.5 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-73751/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 73838

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 239.2 mg/Kg 96 90 - 110 20

QC Association Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

GC VOA

Prep Batch: 73289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Total/NA	Solid	5035	
MB 880-73289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 73858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Total/NA	Solid	8021B	73289
MB 880-73289/5-A	Method Blank	Total/NA	Solid	8021B	73289
LCS 880-73289/1-A	Lab Control Sample	Total/NA	Solid	8021B	73289
LCSD 880-73289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73289

GC Semi VOA

Prep Batch: 73703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Total/NA	Solid	8015NM Prep	
MB 880-73703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39766-1 MS	SW 91H-Bottom 8-2	Total/NA	Solid	8015NM Prep	
880-39766-1 MSD	SW 91H-Bottom 8-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73819

Lab Sample ID 880-39766-1	Client Sample ID SW 91H-Bottom 8-2	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 73703
MB 880-73703/1-A	Method Blank	Total/NA	Solid	8015B NM	73703
LCS 880-73703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73703
LCSD 880-73703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73703
880-39766-1 MS	SW 91H-Bottom 8-2	Total/NA	Solid	8015B NM	73703
880-39766-1 MSD	SW 91H-Bottom 8-2	Total/NA	Solid	8015B NM	73703

HPLC/IC

Leach Batch: 73751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Soluble	Solid	DI Leach	
MB 880-73751/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73751/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73751/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Soluble	Solid	300.0	73751
MB 880-73751/1-A	Method Blank	Soluble	Solid	300.0	73751
LCS 880-73751/2-A	Lab Control Sample	Soluble	Solid	300.0	73751
LCSD 880-73751/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73751

QC Association Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

General Chemistry

Analysis Batch: 73828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39766-1	SW 91H-Bottom 8-2	Total/NA	Solid	D2216	
MB 880-73828/1	Method Blank	Total/NA	Solid	D2216	
880-39766-1 DU	SW 91H-Bottom 8-2	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

SDG: Seawolf 112 91H-on

Job ID: 880-39766-1

Client Sample ID: SW 91H-Bottom 8-2

Client Sample ID: SW 91H-Bottom 8-2

Lab Sample ID: 880-39766-1

Date Collected: 02/21/24 00:00 Date Received: 02/22/24 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	73751	02/22/24 08:25	SA	EET MID
Soluble	Analysis	300.0		1			73838	02/22/24 10:26	CH	EET MID
Total/NA	Analysis	D2216		1			73828	02/22/24 09:16	SMC	EET MID

Lab Sample ID: 880-39766-1

Date Collected: 02/21/24 00:00 **Matrix: Solid** Date Received: 02/22/24 08:00

Percent Solids: 96.8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73289	02/22/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/22/24 22:44	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73703	02/22/24 10:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 14:18	AJ	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc

Job ID: 880-39766-1 Project/Site: Seawolf 1 12 91H-on SDG: Seawolf 112 91H-on

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 1 12 91H-on

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

02/21/24 00:00

02/22/24 08:00

Client: Civil & Environmental Consultants Inc

SW 91H-Bottom 8-2

Project/Site: Seawolf 1 12 91H-on

880-39766-1

Job ID: 880-39766-1

SDG: Seawolf 112 91H-on

Lab Sample ID Client Sample ID Matrix Collected Received

Solid

Received by OCD: 8/20/2024 10:25:13 AM

2/26/2024

Eu 121 Bring: Dale Woodall Dale. Woodall dun. com

	Eurotins Midland		one, resolvent a
	1211 W Florida Ave	Chain of Custody Record	575 748 1838
	Midland TX 79701	Chain of Custody Record 27	2 /3 / 10 2000
	Phone (432) 704-5440		
1	Conviou		

eurofins	700
)	Environment Testing

Client Information	Sampler VOL	is Mo	ntaon	Lab F	РМ hter Tra	avıs V	V					Carrier	Trackin	g No(s	i).			COC No: 880-6066-828 1
MS Laura Campbell 11/1 N.CN Shepheld	Phone		J		ail vis Rıch			rofins	us co	m		State of	Origin.	٨١	M		1	Page: Page 1 of 2
Company Civil & Environmental Consultants Inc			PWSID		T					-			1	7.	/_`			Job#
Address. 4700 Gaillardia Parkway Suite 101 TOO Chemington Parkway City Moon Township Oklahana City State Zip. PA. 15100 OK, 73142	Due Date Requeste	ed	<u> </u>						H	alysis	Req	ueste	∍α	1	7	- 6		Preservation Codes
City - Aklah 64	TAT Requested (da	ys). A			41									l			7	A HCL M Hexane
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PA, 15108 UK, 73 142 Phone	Compliance Projec	t: ∆Yes ≀	A No		1										1		The second	E NaHSO4 Q Na2SO3
800-365-2324(TeI)	10#: 1331-071 33	5-56	7							İ							1	F MeOH S - H2SO4 G Amchlor T TSP Dodecahydrate
Email: Icampbell@cecinc.com, 15hepherd@cecinc.com Project Name	wo#: 21120103 2	1223	252		0 0 P				thod									I Ice U Acetone J DI Water V - MCAA
SEAWOLF 1 12 FEDERAL #081H1 11 - On	Project #: 88001737				وَ إِذَا	Chloride	_		al Me									K EDTA W - pH 4-5 L EDA Y Trizma
Site. Seawolf 112 91H-on	SSOW#:			······································	ald last	- Chlc	- Full TPH		MOISTURE_2540G - Local Method								3.548	Z other (specify) Other
			Sample	Matrix	E S	M_28[X	2540									
			Туре	(W=water S=solid,	E E	300_ORGFM	8015MOD_NM	3 - BTEX	TURE								Total Number	
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	O≃waste/oil, BT≈Tissue, A≖Air)	Field FIII Perform	300	80158	8021B	MOIS									Special Instructions/Note:
61/2411 011 02		$\gg \leq$	Preserva	tion Code:	XX	N	N	N I	1	,			6				X	opcolar metractions/voice:
SW 91H-Botton 8-2	2-21-24		C	Solid Solid		X	X	X	X									
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Possible Hazard Identification					Sa	mple	Disp	oosal	(Af	ee ma	/ be a	ssess	ed if s	amp	les a	re reta	ine	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant Pois Deliverable Requested I II III IV Other (specify)	on B Unkn	own 🗀 I	Radiologica	1	'	\square_R	eturn	To C	lient		$\sqcup_{\mathcal{L}}$	Isposa	al By L	.ab		□ _A	rchi	ive For Months
					Sp	ecial	Instru	uction	s/QC	Requi	remer	nts						
Empty Kit Relinquished by		Date:			Time)				Λ	N	lethod o	of Ship	ment:			,
Relinquished by anan Montgoner	Date/Time: 2 -	21-24	8.03	Company		Flede	ive d/g	7	Ĺ	l				Dat		122	2/	OCI & O Company
	Date/Time ⁻			Company		Rece	ivedb	4		***************************************				Dat	e/Time			Company
Relinquished by	Date/Time ⁻	***		Company		Rece	ived b	y.						Dat	e/Time	:		Company
Custody Seals Intact. Δ Yes Δ No	1					Coole	er Tem	nperatu	re(s)	C and O	ther Re	marks.				<u>_</u>		3/52-1718
3 . 00 B RV																	,	2120-11/11

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 880-39766-1

SDG Number: Seawolf 112 91H-on

List Source: Eurofins Midland

Login Number: 39766 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell Civil & Environmental Consultants Inc 700 Cherrington Parkway Moon Township, Pennsylvania 15108

Generated 7/5/2024 4:53:52 PM

JOB DESCRIPTION

Seawolf 112 Fed 91H

JOB NUMBER

880-45371-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 7/5/2024 4:53:52 PM

Authorized for release by Travis Richter, Project Manager <u>Travis.Richter@et.eurofinsus.com</u> (281)794-7216 1

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Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 Fed 91H Laboratory Job ID: 880-45371-1

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc

Job ID: 880-45371-1 Project/Site: Seawolf 112 Fed 91H

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Civil & Environmental Consultants Inc

Project: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Job ID: 880-45371-1 Eurofins Midland

Job Narrative 880-45371-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/27/2024 5:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84446 and analytical batch 880-84620 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Civil & Environmental Consultants Inc

Client Sample ID: BF-SW91H-042918

Project/Site: Seawolf 112 Fed 91H

Lab Sample ID: 880-45371-2

Lab Sample ID: 880-45371-1

Matrix: Solid Percent Solids: 99.6

Job ID: 880-45371-1

Date Collected: 06/26/24 13:36 Date Received: 06/27/24 17:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	— <u></u>	06/30/24 18:35	07/01/24 05:22	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	₽	06/30/24 18:35	07/01/24 05:22	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	₽	06/30/24 18:35	07/01/24 05:22	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	₽	06/30/24 18:35	07/01/24 05:22	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	₩	06/30/24 18:35	07/01/24 05:22	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	₽	06/30/24 18:35	07/01/24 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/30/24 18:35	07/01/24 05:22	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/30/24 18:35	07/01/24 05:22	1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.7	J	49.9	11.0	mg/Kg	*	06/28/24 08:19	06/29/24 17:56	1
Diesel Range Organics (Over C10-C28)	15.6	J	49.9	15.0	mg/Kg	₽	06/28/24 08:19	06/29/24 17:56	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg	₩	06/28/24 08:19	06/29/24 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/28/24 08:19	06/29/24 17:56	1
o-Terphenyl	109		70 - 130				06/28/24 08:19	06/29/24 17:56	1

Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.6	5.04	0.398 mg/Kg			07/02/24 02:27	1

Client Sample ID: BF-SW91H-090723

Date Collected: 06/26/24 13:44

Matrix: Solid Date Received: 06/27/24 17:40 Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	₩	06/29/24 13:54	07/01/24 12:32	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	₽	06/29/24 13:54	07/01/24 12:32	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	₽	06/29/24 13:54	07/01/24 12:32	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	₩	06/29/24 13:54	07/01/24 12:32	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	₽	06/29/24 13:54	07/01/24 12:32	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	₽	06/29/24 13:54	07/01/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/29/24 13:54	07/01/24 12:32	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/29/24 13:54	07/01/24 12:32	1

Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) ((GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.5	J	50.9	11.2	mg/Kg	<u> </u>	06/28/24 08:19	06/29/24 18:16	1
Diesel Range Organics (Over C10-C28)	17.4	J	50.9	15.3	mg/Kg	₽	06/28/24 08:19	06/29/24 18:16	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.9	12.7	mg/Kg	₽	06/28/24 08:19	06/29/24 18:16	1

Client Sample Results

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Date Received: 06/27/24 17:40

h Comple ID: 000 45274 2

Client Sample ID: BF-SW91H-090723

Date Collected: 06/26/24 13:44

Lab Sample ID: 880-45371-2

Matrix: Solid

Percent Solids: 97.9

Job ID: 880-45371-1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1-Chloropotane
 107
 70 - 130
 06/28/24 08:19
 06/29/24 18:16
 1

Mathadi EDA 200 0 A	nione lon Chromotomanhu	Calubia			
o-Terphenyl	111	70 - 130	06/28/24 08:19	06/29/24 18:16	1
1-Chlorooctane	107	70 - 130	06/28/24 08:19	06/29/24 18:16	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		4.96	0.392	mg/Kg			07/02/24 02:34	1

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Surrogate Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45371-1	BF-SW91H-042918	108	90	
880-45371-2	BF-SW91H-090723	106	90	
LCS 880-84633/1-A	Lab Control Sample	105	93	
LCS 880-84640/1-A	Lab Control Sample	105	91	
LCSD 880-84633/2-A	Lab Control Sample Dup	103	93	
LCSD 880-84640/2-A	Lab Control Sample Dup	103	93	
MB 880-84633/5-A	Method Blank	105	85	
MB 880-84640/5-A	Method Blank	103	88	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45371-1	BF-SW91H-042918	109	109	
880-45371-2	BF-SW91H-090723	107	111	
LCS 880-84446/2-A	Lab Control Sample	81	83	
LCSD 880-84446/3-A	Lab Control Sample Dup	97	99	
MB 880-84446/1-A	Method Blank	139 S1+	152 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Civil & Environmental Consultants Inc

Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: Seawolf 112 Fed 91H

Lab Sample ID: MB 880-84633/5-A

Job ID: 880-45371-1

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 84633

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
o-Xylene	< 0.00157	U	0.00198	0.00157	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		06/29/24 13:54	07/01/24 11:49	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/29/24 13:54	07/01/24 11:49	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/29/24 13:54	07/01/24 11:49	1

Lab Sample ID: LCS 880-84633/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 84659

Analysis Batch: 84659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84633

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	
Toluene	0.100	0.09552		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-84633/2-A

Matrix: Solid

Analysis Batch: 84659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84633

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1005		mg/Kg		101	70 - 130	0	35	
Toluene	0.100	0.09527		mg/Kg		95	70 - 130	0	35	
Ethylbenzene	0.100	0.09254		mg/Kg		93	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.2016		mg/Kg		101	70 - 130	0	35	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	0	35	

LCSD LCSD

мв мв

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-84640/5-A

Matrix: Solid

Analysis Batch: 84639

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 84640

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/30/24 18:35	06/30/24 21:19	1

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Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-84640/5-A

Matrix: Solid

Analysis Batch: 84639

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84640

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/30/24 18:35	06/30/24 21:19	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/30/2	24 18:35	06/30/24 21:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/30/2	24 18:35	06/30/24 21:19	1

Lab Sample ID: LCS 880-84640/1-A

Matrix: Solid

Analysis Batch: 84639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84640

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.09994		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130	
,				5 5				

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: LCSD 880-84640/2-A

Matrix: Solid

Analysis Batch: 84639

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84640

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09916		mg/Kg		99	70 - 130	4	35
Ethylbenzene	0.100	0.09632		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2067		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-84446/1-A

Matrix: Solid

Analysis Batch: 84620

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 84446

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<11.0	U	50.0	11.0	mg/Kg		06/28/24 08:19	06/29/24 08:20	1
(GRO)-C6-C10									

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-84446/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-84446/2-A

Analysis Batch: 84620

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84446

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		06/28/24 08:19	06/29/24 08:20	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 08:19	06/29/24 08:20	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	139	S1+	70 - 130	06/28/24 08:19	06/29/24 08:20	1
l	o-Terphenyl	152	S1+	70 - 130	06/28/24 08:19	06/29/24 08:20	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84446

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 894.3 89 70 - 130 mg/Kg (GRO)-C6-C10 1000 812.8 Diesel Range Organics (Over mg/Kg 81 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-84446/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 84620

Analysis Batch: 84620

Client	Sample	ו יחו	ah	Control	Sample D	lun

Prep Type: Total/NA

Prep Batch: 84446

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Gasoline Range Organics 1000 876.2 mg/Kg 88 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 870.8 mg/Kg 87 70 - 130 7 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 99 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84502/1-A

Matrix: Solid

Analysis Batch: 84722

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <0.395 U 5.00 0.395 07/02/24 00:14 mg/Kg

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Prep Type: Soluble

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-84502/2-A

Matrix: Solid Analysis Batch: 84722

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	252.8		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-84502/3-A

Matrix: Solid							Prep	Type: S	
Analysis Batch: 84722	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	253.0		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

GC VOA

Prep Batch: 84633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-2	BF-SW91H-090723	Total/NA	Solid	5035	
MB 880-84633/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84633/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84633/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 84639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Total/NA	Solid	8021B	84640
MB 880-84640/5-A	Method Blank	Total/NA	Solid	8021B	84640
LCS 880-84640/1-A	Lab Control Sample	Total/NA	Solid	8021B	84640
LCSD 880-84640/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84640

Prep Batch: 84640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Total/NA	Solid	5035	
MB 880-84640/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84640/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84640/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 84659

Lab Sample	e ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-	2 BF-SW91H-090723	Total/NA	Solid	8021B	84633
MB 880-84	633/5-A Method Blank	Total/NA	Solid	8021B	84633
LCS 880-84	4633/1-A Lab Control Sample	Total/NA	Solid	8021B	84633
LCSD 880-	84633/2-A Lab Control Sample Dup	Total/NA	Solid	8021B	84633

GC Semi VOA

Prep Batch: 84446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Total/NA	Solid	8015NM Prep	
880-45371-2	BF-SW91H-090723	Total/NA	Solid	8015NM Prep	
MB 880-84446/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84446/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84620

Lab Sample ID 880-45371-1	Client Sample ID BF-SW91H-042918	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 84446
880-45371-2	BF-SW91H-090723	Total/NA	Solid	8015B NM	84446
MB 880-84446/1-A	Method Blank	Total/NA	Solid	8015B NM	84446
LCS 880-84446/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84446
LCSD 880-84446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84446

HPLC/IC

Leach Batch: 84502

Released to Imaging: 10/8/2024 11:19:46 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Soluble	Solid	DI Leach	
880-45371-2	BF-SW91H-090723	Soluble	Solid	DI Leach	
MB 880-84502/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84502/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

HPLC/IC (Continued)

Leach Batch: 84502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-84502/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 84722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Soluble	Solid	300.0	84502
880-45371-2	BF-SW91H-090723	Soluble	Solid	300.0	84502
MB 880-84502/1-A	Method Blank	Soluble	Solid	300.0	84502
LCS 880-84502/2-A	Lab Control Sample	Soluble	Solid	300.0	84502
LCSD 880-84502/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84502

General Chemistry

Analysis Batch: 84547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45371-1	BF-SW91H-042918	Total/NA	Solid	D2216	
880-45371-2	BF-SW91H-090723	Total/NA	Solid	D2216	
MB 880-84547/1	Method Blank	Total/NA	Solid	D2216	

Eurofins Midland

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Job ID: 880-45371-1

Client Sample ID: BF-SW91H-042918

Date Collected: 06/26/24 13:36 Date Received: 06/27/24 17:40

Lab Sample ID: 880-45371-1

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84722	07/02/24 02:27	CH	EET MID
Total/NA	Analysis	D2216		1			84547	06/28/24 14:01	СН	EET MID

Client Sample ID: BF-SW91H-042918

Date Collected: 06/26/24 13:36

Date Received: 06/27/24 17:40

Lab Sample ID: 880-45371-1

Matrix: Solid Percent Solids: 99.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	84640	06/30/24 18:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84639	07/01/24 05:22	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84446	06/28/24 08:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84620	06/29/24 17:56	SM	EET MID

Client Sample ID: BF-SW91H-090723

Date Collected: 06/26/24 13:44

Date Received: 06/27/24 17:40

Lab Sample ID: 880-45371-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble Leach DI Leach 5.04 g 50 mL 84502 06/28/24 11:15 SMC EET MID Soluble Analysis 300.0 50 mL 50 mL 84722 07/02/24 02:34 **EET MID** СН

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Client Sample ID: BF-SW91H-090723

Date Collected: 06/26/24 13:44

Total/NA

Date Received: 06/27/24 17:40

Analysis

Lab Sample ID: 880-45371-2

CH

84547

06/28/24 14:01

Matrix: Solid

EET MID

Percent Solids: 97.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	84633	06/29/24 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84659	07/01/24 12:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84446	06/28/24 08:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84620	06/29/24 18:16	SM	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

D2216

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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Sample Summary

Client: Civil & Environmental Consultants Inc

Project/Site: Seawolf 112 Fed 91H

Job ID: 880-45371-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45371-1	BF-SW91H-042918	Solid	06/26/24 13:36	06/27/24 17:40
880-45371-2	BF-SW91H-090723	Solid	06/26/24 13:44	06/27/24 17:40

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Received by OCD: 8/20/2024 10:25:13 AM

Revised Date: 08/25/2020 Rev. 2020 2

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Chain of Custody

Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Little Rock, AR (501) 224-5060

Project Manager:	Tr	avis h	hont	gone	ns	Bill to: (If	different)												W	ork O	rder (Comments	
Company Name:	0 0 0			Compan	y Name	1									Prog	am: U	ST/PS	ST 🗌 F	RP	Brow	nfields RR	C Superfund		
Address:				Address	:											of Pro								
City, State ZIP: Moon Toronship, Pt, 15108			City, State ZIP:					Reporting: Level II Level III PST/UST TRRP Level IV																
Phone:		-265-2			Email	Tuon		un	1@	cec	1.0	NC					Delive	rables	: EDI			ADaP	T Oth	er:
Project Name:	Seal	uolf 1	12 Fe	d 91H	Tun	n Around								ANAL	YSIS	REQ	UEST						Preser	vative Codes
Project Number:	Q,u				Routine	Rus	h	Pres. Code															None: NO	DI Water: H ₂ 0
Project Location:					Due Date:				-3			-											Cool: Cool	MeOH: Me
Sampler's Name:					TAT starts to	ne day rece	ived by		9	TH		3											HCL: HC	HNO ₃
PO #:					the lab, if re			60	2			3											H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEI	PT	Temp B	lank:	Yes (No	Wet ice:	Yes	No	pter	3	Full		19											H ₃ PO ₄ : HP	
Samples Received In		75	No.	Thermomet		IR-		Parameters	-280-Chloride	14		2540gr wa											NaHSO4: NA	BIS
Cooler Custody Seal	$\overline{}$	Yes No	-	Correction		-0+	Ĭ	Pas		3	T X	1											Na ₂ S ₂ O ₃ : Na	SO ₃
Sample Custody Sea		Yes No	-	Temperatui		3.3	2		TE	1 7	8	1											Zn Acetate+N	laOH: Zn
Total Containers:					Temperature:		1		ORGIFM	9	3	3											NaOH+Ascor	bic Acid: SAPC
				Date	Time	Î	Grab/	# of		立	a	古												
Sample Iden	tificati	lon	Matrix	Sampled	Sampled	Depth	Comp		8	Roigued - NM	Scaus-PTex	Moi strun											Sample	Comments
BF-SW914	1-0L	12918	5	6/20/24	13:36	SURFACE	C		X	X	X	X												
BF-SWOUL	1-00	10723	8	F.	13:44	611	C		X	X	X	X												
												1												
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T-4-1 000 7 / 6/	140	200 0 1 0	000.	-	DCDA 120	DOM To	vec 11	AL C	Sh As	Po	Po P	Cq ('a Cr	Co.	Cu Ee	Dh	Ma I	In M	Mi	K So	Aa S	SIO. I	Na Sr Ti Sn	11 V 7n
Total 200.7 / 60		200.8 / 6			TCLP / 8															1 00			245.1 / 7470	
Circle Method(s) a																							243.177470	7 / 14/1
otice: Signature of this f service. Eurofins Xen	en will be	a Hable only f	or the one	at of samples a	ind shall not as	sume any re	sponsibili	Ity for a	ny loss	06 OF 01	(Denses	Incurre	d by the	client If	such lo	6000 BI	re due t	circun	etance	s beyon	d the co	ontrol		
f Eurofins Xenco. A mir	lmum c	harge of \$85.	od likw 00	applied to eec	h project and a	charge of \$	5 for each	n sampl	e subm	tted to	Eurofin	s Xenco	but not	anelyze	ed. Thee	e termi	will be	enforce	d unles	s previ	ouely ne	gotiate	d.	
Relinquished by (Signature) Received by (Signature)					Date	/Time		R	linqui	shed	by: (Si	gnati	ıre)		Rece	elved	by: (Si	ignatı	ıre)	Date/Time				
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, , ,	W	n	130)		-		- 1		4												
			-					-				6		-				-						

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc Job Number: 880-45371-1

Login Number: 45371 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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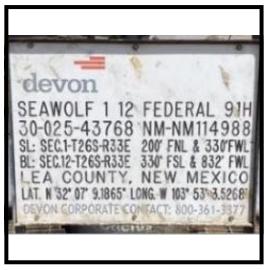
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APPENDIX G

PHOTOGRAPHIC LOG

335-562 Seawolf 1 12 Federal 91H September 7, 2023 Release Devon Energy Corporation February 21, 2024



Well Pad



View of excavation, facing north



View of excavation, facing south



Location of gas line on eastern edge of excavation area



View of excavation, facing south



Area requiring additional excavation to greater depth (SW 91H-Bottom 8)



335-562 Seawolf 1 12 Federal 91H September 7, 2023 Release Devon Energy Corporation June 26, 2024



View of backfilled excavation, facing southwest



View of backfilled excavation, facing north



View of backfilled excavation, facing northwest



Location of BF-SW91H-090723, facing northeast



View of backfilled excavation, facing northwest



View of backfilled excavation, facing southwest



APPENDIX H

SKETCH SHOWING GRAB LOCATIONS FOR COMPOSITE BACKFILL SAMPLE

\cecinc.com\global\Projects\330-000\335-562\-GIS\Maps\EN01_Site_Characterization\335562_EN01_Site_Characterization.aprx 6/25/2024 2:23 PM (slavin) **NORTH SW-91H-18 SW91H02** -SW91H-Bottom 1 SW-91H-03 SW91H-Bottom 2 SW-91H-17 SW81H-Sidewall 1 BF-SW91H-0907 SW91H-Bottom3 BF-SW91H-090723 SW91H-Bottom 4 SW81H-Sidewall 3 SW91H-Bottom 6 SW91H-Bottom 5 **SW91H04** - **SW-9111-10** SW91H-Bottom 7 BF-SW91H-SW91HBottom8 SW91H-Bottom 9 SW-91H-05 SW-91H-01 SW31H-Sidewall 2 SW-91H-20 - **SW911)-11** SW91H-Bottom 12 BF-SW91H-0907 SW91H-Bottom 10 BF-SW91F SW91H-Bottom 13 SW91H-Bottom 11 **SW91H03 ─── \$W9111-12** SW91H-Bottom 14 SW91H-Bottom 15 SW31H-Stdewall 4 SW-91H-07 SW91H-Bottom 16 SW91H-Bottom 17 **LEGEND** BORING/TEST PIT LOCATION 5-POINT COMPOSITE BOTTOM EXCAVATION CONFIRMATION SAMPLE ID APPROXIMATE POINT OF RELEASE SIDEWALL SAMPLE LENGTH AND ID - - - ' APPROXIMATE LOCATION OF GAS FLOWLINE ■ 5-POINT COMPOSITE CONFIRMATION SAMPLE GRID BLOCK FINAL REMEDIATION EXCAVATION DEPTHS 1-FOOT SCALE IN FEET 2-FEET 3-FEET 6-FEET **DEVON ENERGY CORPORATION** REMEDIATION CLOSURE REPORT SEAWOLF 1 12 FEDERAL 91H SEPT 7, 2023 RELEASE Civil & Environmental Consultants, Inc. LEA COUNTY, NEW MEXICO 700 Cherrington Parkway - Moon Township, PA 15108

REFERENCE

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD IMAGERY, ACCESSED 6/25/2024

www.cecinc.com CBL/NTP CHECKED BY: DRAWN BY: 1"=30' PROJECT NO: DATE: 6/25/2024 SCALE:

GRAB SAMPLE LOCATIONS FOR COMPOSITE BACKFILL SAMPLE (BF-SW91H-090723)

LDC APPROVED BY: * Hand signature on file RJV* FIGURE NO: H-1

335-562

Released to Imaging: 10/8/2024 11:1

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

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

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

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

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

QUESTIONS

Action 375479

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2325072650					
Incident Name	NAPP2325072650 SEAWOLF 1 12 FEDERAL #091H @ 30-025-43768					
Incident Type	Produced Water Release					
Incident Status	Remediation Closure Report Received					
Incident Well	[30-025-43768] SEAWOLF 1 12 FEDERAL #091H					

ocation of Release Source						
Please answer all the questions in this group.						
Site Name	SEAWOLF 1 12 FEDERAL #091H					
Date Release Discovered	09/07/2023					
Surface Owner	Federal					

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications t	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 51 BBL Recovered: 29 BBL Lost: 22 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Flowline developed a pin hole underground about 15ft away from where it went in the ground near the well head. All fluid stayed on the pad and is a estimate of 51.575bbls of water/oil mix spilled. Shut in well and bled pressure off of the flowline to stop the leak. Estimated recovered is 30bbls

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

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

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

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

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

QUESTIONS, Page 2

Action 375479

Phone:(505) 476-3470 Fax:(505) 476-3462						
QUESTIONS (continued)						
Operator: DEVON ENERGY PRODUCTION COMPANY, LP	OGRID: 6137					
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 375479 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)					
ONATIONA City, ON 73102						
QUESTIONS	•					
Nature and Volume of Release (continued)						
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.					
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes					
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.					
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.					
Initial Response The responsible party must undertake the following actions immediately unless they could create a second create as	safety hazard that would result in injury.					
The source of the release has been stopped	True					
The impacted area has been secured to protect human health and the environment	True					
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True					
All free liquids and recoverable materials have been removed and managed appropriately	True					
If all the actions described above have not been undertaken, explain why	Not answered.					
	lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.					
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or					
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com					

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 375479

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan		
Please answer all the questions that apply or are indicated. This	information must be provided to th	e appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this sub	omission	Yes
Attach a comprehensive report demonstrating the lateral and vert	ical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination	been fully delineated	Yes
Was this release entirely contained within a lined con-	tainment area	No
Soil Contamination Sampling: (Provide the highest observed)	ervable value for each, in milli	grams per kilograms.)
Chloride (EPA 300.0 or SM45	00 CI B)	3580
TPH (GRO+DRO+MRO) (EPA SW-846 Method	8015M)	3007
GRO+DRO (EPA SW-846 Metho	od 8015M)	3007
BTEX (EPA SW-846 Metho	od 8021B or 8260B)	0
Benzene (EPA SW-846 Metho	od 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site character which includes the anticipated timelines for beginning and comp.		efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commen	се	09/19/2023
On what date will (or did) the final sampling or liner in:	spection occur	01/29/2024
On what date will (or was) the remediation complete(or	i)	06/24/2024
What is the estimated surface area (in square feet) the	at will be reclaimed	2980
What is the estimated volume (in cubic yards) that will	be reclaimed	310
What is the estimated surface area (in square feet) the	at will be remediated	2980
What is the estimated volume (in cubic yards) that will	be remediated	310
These estimated dates and measurements are recognized to be the	ne best guess or calculation at the t	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may h	ave to be minimally adjusted in acc	cordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 375479

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	JAL LANDFARM [fEEM0112332673]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 08/20/2024

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

Released to Imaging: 10/8/2024 11:19:46 AM

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

QUESTIONS, Page 5

Action 375479

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

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QUESTIONS, Page 6

Action 375479

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	307529
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/29/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1510

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	2980	
What was the total volume (cubic yards) remediated	310	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	2980	
What was the total volume (in cubic yards) reclaimed	310	
Summarize any additional remediation activities not included by answers (above)	The areas where excavation was performed to remediate the Site were restored by backfilling with clean fill to stabilize the disturbed areas and return them to the existing grade, and provide a soil cover that prevents ponding of water and minimizes dust and erosion in accordance with Sections A., B. and C of 19.15.29.13 NMAC. Restoration activities were conducted on March 1, 2024.	

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

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

Name: Dale Woodall
Title: EHS Professional
Email: Dale.Woodall@dvn.com
Date: 08/20/2024

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QUESTIONS, Page 7

Action 375479

QUESTIONS (continued)

Operator:	OGRID:
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333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	375479
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 375479

CONDITIONS

Operator:	OGRID:
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Remediation closure report approved, release resolved.	10/8/2024