BISHOP LOSS OF CONTAINMENT
GALETON, COLORADO

ENVIRONMENTAL SAMPLING ANALYTE ADJUSTMENT PLAN

Version 1.0

Prepared on Behalf of:
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For ECMC Form 27 Submittal

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1.0 Introduction and Purpose

This Environmental Sampling Analyte Adjustment Plan (Plan) has been prepared for future use in assessment and remediation activities in response to the Bishop Loss of Containment (LOC) in Galeton, Colorado. The incident occurred on April 6, 2025. The GPS coordinates for the approximate location of the release point are 40.505384, -104.585581. The well pad at this location and its vicinity are hereinafter referred to as the LOC site.

On April 8, 2025, two source material samples were collected from the LOC site to characterize the source material (consisting of oil and water phases) released during the LOC event. Due to safety concerns and limited access to the well pad and its adjoining areas during the active release, both samples were collected by Wild Well, which was supporting the containment activities at that time. One sample (GACO0408SC001, also referred to as the "pad sample") was collected from the pooled source material on the well pad. A second sample (GACO0408SC002, also referred to as the "ditch sample") was collected from the source material pooled in the containment ditch adjacent to the well pad. Both samples were inclusive of the oil and water phases that constituted the source material. Samples were immediately transferred to CTEH for handling and submission to the target laboratories under chain of custody (COC) protocols. The source material samples were split and submitted to Pace Alpha Analytical (Pace Alpha) in Mansfield, Massachusetts) for analyses for fingerprinting purposes and to Pace National Analytical (Pace National) in Mt. Juliet, Tennessee for assessing the analytes which could be chemicals of potential concern (COPCs). Newfields was retained as the forensic Subject Matter Expert (SME) to perform the data review and interpretation of results from Pace Alpha.

Environmental sampling of surface water, groundwater, sediment and soil is currently being conducted in accordance with the latest Environmental Sampling and Analysis Plan (ESAP v1.6) and Groundwater Monitoring Well Sampling and Analysis Plan (GMWSAP v1.2) as approved by the Colorado Energy and Carbon Management Commission (ECMC) on May 15, 2025. ESAP v1.0 was approved by Incident Command on April 17, 2025. Sampling of surface water began on April 7, 2025, and soil/sediment sampling began on April 16, 2025. Sampling of groundwater began on April 17, 2025. Although the ESAP had not been finalized at the time of initial sampling of source material and other media, these sampling activities were commenced to delineate the nature and extent of potential environmental impacts related to the LOC event. These samples were collected per the draft ESAP and it is noted that the sample collection methods have generally remained consistent between the draft ESAP and the approved ESAP currently in place (ESAP v1.6).

The approved ESAP, v1.6 states the following related to methods/analytes for surface water, sediment, and soil samples:

> *Methods and analytes may be modified and/or reduced once detailed characterization of the source constituents is completed.*

Consistent with ECMC Rule 915.e.(2).c, this Plan is being submitted to seek ECMC approval to modify the current list of analytes based on the LOC site-specific waste profile derived from the two source material samples, analytical data collected from background samples, and process knowledge, which are described in sections below. As additional data becomes available, requests for further modifications and/or reductions to methods and analytes may be requested.

2.0 Source material Sample Results

Two source material samples (pad sample and ditch sample) were collected, split and submitted to Pace Alpha Analytical Lab, (Mansfield), and Pace National Lab (Mt. Juliet). Because the samples from Pace Alpha were prepared for Newfields for forensic analysis, the Pace Alpha data will be referred to as "Newfields" and the Pace National will be referred to as "Pace" for ease of distinguishing the two datasets. The pad sample and the ditch sample were analyzed in duplicate for an extensive list of analytes which was a subset of the analytical suites for soil and surface water as mentioned in ESAP v1.6. These included the following analyte suites:

- volatile organic compounds (VOCs; method 8260D; Pace and Newfields),
- semi-volatile organic compounds (SVOCs; method 8270E; Pace and Newfields),
- gasoline, diesel, and motor oil range total petroleum hydrocarbons (TPH; method 8015D; Pace and Newfields),
- metals (method 6010D; Pace and Newfields),
- mercury, and hexavalent chromium (methods 7199, 7471B; Pace),
- inorganics (total nitrogen-CALC; phosphorus-365.4M; Kjeldahl nitrogen-4500 Norg D-2021; and bromide, chloride, fluoride, nitrate, nitrite, and sulfate-9056A; Pace).

An initial evaluation of completeness of analyses of the pad sample and the ditch sample was made by comparison to the Analytes and Methods in the Comprehensive Analyte List based on discussions with ECMC (Appendix A). This included a total of 192 analytes for soil and surface water (combined) representing inorganics, metals, radionuclides, TPH, VOCs, and SVOCs (Table 1, hereinafter referred to as the Comprehensive Analyte List). Analytical results from the pad sample and ditch sample are presented in Attachment B.1 for Pace and B.2 for Newfields. Evaluation of analytical results from the pad sample and the ditch sample consisted of a comparison of analytes to the Comprehensive Analyte List, tabulation of detected analytes by analytical method, and comparisons of results to applicable screenings levels (i.e., ECMC Table 915-1 Residential Soil Screening Levels (RSSL) and Protection of Groundwater Soil Screening Levels (PGSSL)).

Table 1. Combined Analytes and Methods for Surface water and Soil from Comprehensive Analyte List.

Analyte	Analyte Group	Method
Ammonia Nitrogen	Inorganic	350.1
Total Solids	Inorganic	2540 G-2011
pH	Inorganic	9045D
Specific Conductance	Inorganic	9050AMod
Sodium Absorption Ratio (SAR)	Inorganic	CALC
Total Nitrogen	Inorganic	CALC
Hardness (colorimetric) as CaCO3	Inorganic	E130.1
Bromide	Inorganic	E300.0
Chloride	Inorganic	E300.0
Fluoride	Inorganic	E300.0
Sulfate	Inorganic	E300.0
Phosphorus,Total	Inorganic	E365.4
Dissolved Solids	Inorganic	SM 2540C

Alkalinity	Inorganic	SM2320B
Alkalinity,Bicarbonate	Inorganic	SM2320B
Alkalinity,Carbonate	Inorganic	SM2320B
Suspended Solids	Inorganic	SM2540D
Kjeldahl Nitrogen, TKN	Inorganic	SM4500-NORG-D
MBAS	Inorganic	SM5540C
CONDUCTIVITY	Inorganic	SW9050
Nitrate as (N)	Inorganic	SW9056
Nitrite as (N)	Inorganic	SW9056
Cation Exchange Capacity	Inorganic	SW9081
Exchangeable Sodium Percentage	Inorganic	USDA 4F
TOC By Walkley Black	Inorganic	WALKLEY-BLACK
Hexavalent Chromium	Metal	7199
Mercury	Metal	7471
Aluminum	Metal	6010/6020
Antimony	Metal	6010/6020
Arsenic	Metal	6010/6020
Barium	Metal	6010/6020
Beryllium	Metal	6010/6020
Boron	Metal	6010/6020
Cadmium	Metal	6010/6020
Calcium	Metal	6010/6020
Chromium	Metal	6010/6020
Cobalt	Metal	6010/6020
Copper	Metal	6010/6020
Iron	Metal	6010/6020
Lead	Metal	6010/6020
Magnesium	Metal	6010/6020
Manganese	Metal	6010/6020
Nickel	Metal	6010/6020
Potassium	Metal	6010/6020
Selenium	Metal	6010/6020
Silver	Metal	6010/6020
Sodium	Metal	6010/6020
Thallium	Metal	6010/6020
Vanadium	Metal	6010/6020
Zinc	Metal	6010/6020
Uranium	Metal	D5174
Actinium-228 (Ra-228)	Radionuclide	E901.1
Bismuth-212	Radionuclide	E901.1
Bismuth-214 (Ra-226)	Radionuclide	E901.1
Lead-212	Radionuclide	E901.1
Lead-214	Radionuclide	E901.1

Potassium-40	Radionuclide	E901.1
RADIUM-226	Radionuclide	E901.1
RADIUM-228	Radionuclide	E901.1
Thallium-208	Radionuclide	E901.1
Thorium-234 (U-238)	Radionuclide	E901.1
Uranium-235	Radionuclide	E901.1
1-Methylnaphthalene	SVOC	8270E-SIM
2,2-Oxybis(1-Chloropropane)	SVOC	8270E-SIM
2,4,6-Trichlorophenol	SVOC	8270E-SIM
2,4-Dichlorophenol	SVOC	8270E-SIM
2,4-Dimethylphenol	SVOC	8270E-SIM
2,4-Dinitrophenol	SVOC	8270E-SIM
2,4-Dinitrotoluene	SVOC	8270E-SIM
2,6-Dinitrotoluene	SVOC	8270E-SIM
2-Chloronaphthalene	SVOC	8270E-SIM
2-Chlorophenol	SVOC	8270E-SIM
2-Methylnaphthalene	SVOC	8270E-SIM
2-Nitrophenol	SVOC	8270E-SIM
3,3-Dichlorobenzidine	SVOC	8270E-SIM
4,6-Dinitro-2-methylphenol	SVOC	8270E-SIM
4-Bromophenyl-phenylether	SVOC	8270E-SIM
4-Chloro-3-methylphenol	SVOC	8270E-SIM
4-Chlorophenyl-phenylether	SVOC	8270E-SIM
4-Nitrophenol	SVOC	8270E-SIM
Acenaphthene	SVOC	8270E-SIM
Acenaphthylene	SVOC	8270E-SIM
Anthracene	SVOC	8270E-SIM
Benzidine	SVOC	8270E-SIM
Benzo(a)anthracene	SVOC	8270E-SIM
Benzo(a)pyrene	SVOC	8270E-SIM
Benzo(b)fluoranthene	SVOC	8270E-SIM
Benzo(g,h,i)perylene	SVOC	8270E-SIM
Benzo(k)fluoranthene	SVOC	8270E-SIM
Benzylbutyl phthalate	SVOC	8270E-SIM
Bis(2-chlorethoxy)methane	SVOC	8270E-SIM
Bis(2-chloroethyl)ether	SVOC	8270E-SIM
Bis(2-ethylhexyl)phthalate	SVOC	8270E-SIM
Chrysene	SVOC	8270E-SIM
Dibenz(a,h)anthracene	SVOC	8270E-SIM
Diethyl phthalate	SVOC	8270E-SIM
Dimethyl phthalate	SVOC	8270E-SIM
Di-n-butyl phthalate	SVOC	8270E-SIM
Di-n-octyl phthalate	SVOC	8270E-SIM

Fluoranthene	SVOC	8270E-SIM
Fluorene	SVOC	8270E-SIM
Hexachloro-1,3-butadiene	SVOC	8270E-SIM
Hexachlorobenzene	SVOC	8270E-SIM
Hexachlorocyclopentadiene	SVOC	8270E-SIM
Hexachloroethane	SVOC	8270E-SIM
Indeno(1,2,3-cd)pyrene	SVOC	8270E-SIM
Isophorone	SVOC	8270E-SIM
Naphthalene	SVOC	8270E-SIM
Nitrobenzene	SVOC	8270E-SIM
n-Nitrosodimethylamine	SVOC	8270E-SIM
n-Nitrosodi-n-propylamine	SVOC	8270E-SIM
n-Nitrosodiphenylamine	SVOC	8270E-SIM
Pentachlorophenol	SVOC	8270E-SIM
Phenanthrene	SVOC	8270E-SIM
Phenol	SVOC	8270E-SIM
Pyrene	SVOC	8270E-SIM
C10-C28 Diesel Range	TPH	8015D
C28-C36 Motor Oil Range	TPH	8015D
GRO C6-C10	TPH	8015D
Residual Range Organics (C28-C40)	TPH	8015D
TPH (GC/FID) Low Fraction	TPH	8015D
1,1,1,2-Tetrachloroethane	VOC	8260D
1,1,1-Trichloroethane	VOC	8260D
1,1,2,2-Tetrachloroethane	VOC	8260D
1,1,2-Trichloroethane	VOC	8260D
1,1,2-Trichlorotrifluoroethane	VOC	8260D
1,1-Dichloroethane	VOC	8260D
1,1-Dichloroethene	VOC	8260D
1,1-Dichloropropene	VOC	8260D
1,2,3-Trichlorobenzene	VOC	8260D
1,2,3-Trichloropropane	VOC	8260D
1,2,3-Trimethylbenzene	VOC	8260D
1,2,4-Trichlorobenzene	VOC	8260D
1,2,4-Trimethylbenzene	VOC	8260D
1,2-Dibromo-3-Chloropropane	VOC	8260D
1,2-Dibromoethane	VOC	8260D
1,2-Dichlorobenzene	VOC	8260D
1,2-Dichloroethane	VOC	8260D
1,2-Dichloropropane	VOC	8260D
1,3,5-Trimethylbenzene	VOC	8260D
1,3-Dichlorobenzene	VOC	8260D
1,3-Dichloropropane	VOC	8260D

1,4-Dichlorobenzene	VOC	8260D
1-Methylnaphthalene	VOC	8260D
2,2-Dichloropropane	VOC	8260D
2-Butanone (MEK)	VOC	8260D
2-Chlorotoluene	VOC	8260D
2-Methylnaphthalene	VOC	8260D
4-Chlorotoluene	VOC	8260D
4-Methyl-2-pentanone (MIBK)	VOC	8260D
Acetone	VOC	8260D
Acrolein	VOC	8260D
Acrylonitrile	VOC	8260D
Benzene	VOC	8260D
Bromobenzene	VOC	8260D
Bromodichloromethane	VOC	8260D
Bromoform	VOC	8260D
Bromomethane	VOC	8260D
Carbon tetrachloride	VOC	8260D
Chlorobenzene	VOC	8260D
Chlorodibromomethane	VOC	8260D
Chloroethane	VOC	8260D
Chloroform	VOC	8260D
Chloromethane	VOC	8260D
cis-1,2-Dichloroethene	VOC	8260D
cis-1,3-Dichloropropene	VOC	8260D
Dibromomethane	VOC	8260D
Dichlorodifluoromethane	VOC	8260D
Di-isopropyl ether	VOC	8260D
Ethylbenzene	VOC	8260D
FLUOROBENZENE	VOC	8260D
Hexachloro-1,3-butadiene	VOC	8260D
Isopropylbenzene	VOC	8260D
m,p-Xylenes	VOC	8260D
Methyl tert-butyl ether	VOC	8260D
Methylene Chloride	VOC	8260D
Naphthalene	VOC	8260D
n-Butylbenzene	VOC	8260D
n-Propylbenzene	VOC	8260D
o-Xylene	VOC	8260D
p-Isopropyltoluene	VOC	8260D
sec-Butylbenzene	VOC	8260D
Styrene	VOC	8260D
tert-Butylbenzene	VOC	8260D
Tetrachloroethene	VOC	8260D

Toluene	VOC	8260D
trans-1,2-Dichloroethene	VOC	8260D
trans-1,3-Dichloropropene	VOC	8260D
Trichloroethene	VOC	8260D
Trichlorofluoromethane	VOC	8260D
Vinyl chloride	VOC	8260D
Xylenes	VOC	8260D

- A total of 159 out of 192 analytes on the Comprehensive Analyte List were reported by the laboratories for the source material samples.
- The remaining 33 analytes on the Comprehensive Analyte List were not reported (i.e., either not analyzed due to laboratory limitations, such as methodology and/or matrix interference, or not analyzed by the laboratories (Table 5)).
- Of the 159 analytes reported, only 45 were detected above their method detection limits (MDLs) in either one or both of the two source material samples. Of these 45, source concentrations of three analytes (barium, copper and zinc) did not exceed ECMC Table 915-1 screening levels (Table 3). The remaining 42 analytes are shown in Table 2.
- A total of 114 analytes out of 159 were non-detect (<MDL) in the two source samples, however, 6 of those 114 analytes had MDLs greater than their respective lowest screening level (Table 4).

Based on changes resulting from these four items, 81 analytes are retained for further discussion (42 detected with > MDLs and > lowest screening levels, + 6 with MDLs > lowest screening levels + 33 analytes on Comprehensive Analyte List that were not reported).

A summary of the 42 analytes detected above the respective MDL and the lowest screening levels (where available) in either of the two source material samples is provided in **Table 2**.

Table 2. 42 Analytes in Source Material Detected Above Respective MDL and the Lowest Screening Level Where Available [a]

Analysis	Analytical Method	Analyte	CAS Number
Metals	US EPA 6010D	Aluminum	7429-90-5
		Calcium	7440-70-2
		Chromium	7440-47-3
		Iron	7439-89-6
		Magnesium	7439-95-4
		Manganese	7439-96-5
		Potassium	7440-09-7
		Sodium	7440-23-5
Non-metals or Inorganics	US EPA 9056A	Bromide	24959-67-9
		Chloride	16887-00-6
		Fluoride	16984-48-8
		Sulfate	14808-79-8
	US EPA 8270E	***1, Methylnaphthalene***	***90-12-0***

Analysis	Analytical Method	Analyte	CAS Number
Semivolatile Organic Compounds (SVOCs)		***2, Methylnaphthalene***	***91-57-6***
		Acenaphthene	***83-32-9***
		Acenaphthylene	208-96-8
		Anthracene	***120-12-7***
		Benzo(a)anthracene	***56-55-3***
		Benzo(a)pyrene	***50-32-8***
		Benzo(b)fluoranthene	***205-99-2***
		Fluorene	***86-73-7***
		Naphthalene	***91-20-3***
		Phenanthrene	85-01-8
		Pyrene	***129-00-0***
Total Petroleum Hydrocarbons (TPH)	US EPA 8015D/GRO	Gasoline Range Organics (C6-C10)	NA
	US EPA 8015M	Diesel Range Organics (C10-C28)	NA
		Motor Oil Range (C28-C36)	NA
Volatile Organic Compounds (VOCs)	US EPA 8260D	1,1,2,-Trichloroethane	79-00-5
		1,2,3-Trimethylbenzene	526-73-8
		1,2,4-Trimethylbenzene	***95-63-6***
		1,3,5-Trimethylbenzene	***108-67-8***
		Benzene	***71-43-2***
		Chloroform	67-66-3
		1, Methylnaphthalene	***90-12-0****
		2, Methylnaphthalene	***91-57-6****
		Ethylbenzene	100-41-4
		Isopropylbenzene	98-82-8
		n-Butylbenzene	104-51-8
		n-Propylbenzene	103-65-1
		Naphthalene	***91-20-3****
		p-Isopropyltoluene	99-87-6
		Sec-Butylbenzene	135-98-8
		Tetrachloroethylene	127-18-4
		Toluene	***108-88-3***
		Xylene (total)	***1330-20-7***

Notes
NA- Not Applicable
[a] Bold, italicized analytes exceeded the lowest ECMC Table 915-1 screening level
*Analytes overlap between two analytical methods

Table 3 provides a summary of the three analytes that were detected (>MDL) in the source sample but the concentrations of these analytes were lower than the respective lowest screening levels.

Table 3. Three Analytes Detected in the Two Source Material Samples but Concentrations are Lower than the Lowest Analyte Screening Level

Reporting Analyte	Method	Soil Screening Criteria	Units	Maximum concentration in source material samples
Barium	US EPA 6010D	15,000[a] / 82[b]	mg/kg	11.9
Copper	US EPA 6010D	3,100[a] / 46[b]	mg/kg	0.376
Zinc	US EPA 6010D	23,000[a] / 370[b]	mg/kg	2.33

[a] ECMC Table 915-1 Residential Soil Screening Level (RSSL)
[b] ECMC Table 915-1 Protection of Groundwater Soil Screening Level (PGSSL)

Table 4 provides a summary of the six analytes that were not detected (i.e., were below the laboratory MDL) in any of the two source material samples but the laboratory MDL is greater than the lowest screening level for that analyte.

Table 4. Six Analytes Not Detected in the Two Source Material Samples and the MDL is Greater than the Lowest Analyte Screening Level

Reporting Analyte	Method	Soil Screening Criteria	Units	SC001	SC002	SC001	SC002
				Pace	Pace	Newfields	Newfields
Arsenic	US EPA 6010D	0.68[a] / 0.29[b]	mg/kg	< 0.837	< 0.837	< 0.641	< 0.612
Cadmium	US EPA 6010D	71[a] / 0.38[b]	mg/kg	<0.0653	<0.0653	<1.48	<1.42
Selenium	US EPA 6010D	390[a] / 0.26[b]	mg/kg	< 1.07	< 1.07	< 0.488	< 0.466
Dibenzo(a,h) anthracene	US EPA 8270E	0.11[a] / 0.096[b]	mg/kg	< 1.32	< 1.36	NA	NA
Indeno(1,2,3-cd)pyrene	US EPA 8270E	1.1[a] / 0.98[b]	mg/kg	< 1.35	< 1.38	< 1.89	< 1.46
Hexavalent Chromium	US EPA 7199	0.3[a] / 0.00067[b]	mg/kg	< 0.379	NA	NA	NA

NA: Not Analyzed
[a] ECMC Table 915-1 Residential Soil Screening Level (RSSL)
[b] ECMC Table 915-1 Protection of Groundwater Soil Screening Level (PGSSL)

A summary of the 108 analytes not detected (<MDL) and with MDLs below the lowest analyte screening levels in either of the two source material samples is provided in **Table 5**.

Table 5. 108 Analytes in the Two Source Material Samples Not Detected (<MDL) and where MDL is Less Than the Lowest Screening Level

Analysis	Analytical Method	Analyte	Cas Number
Metals	US EPA 6010D	Antimony	7440-36-0
		Beryllium	7440-41-7
		Cobalt	7440-48-4
		Lead	7439-92-1
		Nickel	7440-02-0
		Silver	7440-22-4
		Thallium	7440-28-0
		Vanadium	7440-62-2
	US EPA 7471B	Mercury	7439-97-6
Non-metals or Inorganics	SM4500-NORG- D	Total Kjeldahl Nitrogen, (TKN)	7727-37-9TKN
	US EPA 365.4M	Total Phosphorus	7723-14-0
	US EPA 9056A	Nitrate as (N)	14797-55-8
		Nitrite as (N)	14797-79-8
Physical Characteristics	CALC	Total Nitrogen	NA
Semi-Volatiles	US EPA 8270	Chrysene	218-01-9
		Di-n-butyl phthalate	84-74-2
		Di-n-octyl phthalate	117-84-0
		Diethyl phthalate	84-66-2
		Dimethyl phthalate	131-11-3
		Fluoranthene	206-44-0
		Hexachloro-1,3-butadiene	87-68-3
		Hexachlorobenzene	118-74-1
		Hexachlorocyclopentadiene	77-47-4
		Hexachloroethane	67-72-1
		Isophorone	78-59-1
		n-Nitrosodi-n-propylamine	621-64-7
		n-Nitrosodimethylamine	62-75-9
		n-Nitrosodiphenylamine	86-30-6
		Nitrobenzene	98-95-3
		Pentachlorophenol	87-86-5
		Phenol	108-95-2
	US EPA 8270E	4-Bromophenyl-phenylether	101-55-3
		4-Chloro-3-methylphenol	59-50-7

		4-Chlorophenyl-phenylether	7005-72-3
		4-Nitrophenol	100-02-7
		4,6-Dinitro-2-methylphenol	534-52-1
		Benzidine	92-87-5
		Benzo[g,h,i]perylene	191-24-2
		Benzo[k]fluoranthene	207-08-9
		Benzylbutyl phthalate	85-68-7
		Bis(2-chlorethoxy)methane	111-91-1
		Bis(2-chloroethyl)ether	111-44-4
		Bis(2-ethylhexyl)phthalate	117-81-7
		2-Chloronaphthalene	91-58-7
		2-Chlorophenol	95-57-8
		2-Nitrophenol	88-75-5
		2,2-Oxybis(1-Chloropropane)	108-60-1
		2,4-Dichlorophenol	120-83-2
		2,4-Dimethylphenol	105-67-9
		2,4-Dinitrophenol	51-28-5
		2,4-Dinitrotoluene	121-14-2
		2,4,6-Trichlorophenol	88-06-2
		2,6-Dinitrotoluene	606-20-2
		3,3-Dichlorobenzidine	91-94-1
Volatiles	US EPA 8260D	Acrylonitrile	107-13-1
		1,1-Dichloroethane	75-34-3
		1,1-Dichloroethene	75-35-4
		1,1-Dichloropropene	563-58-6
		1,1,1-Trichloroethane	71-55-6
		1,1,1,2-Tetrachloroethane	630-20-6
		1,1,2-Trichlorotrifluoroethane	76-13-1
		1,1,2,2-Tetrachloroethane	79-34-5
		1,2-Dibromo-3-Chloropropane	96-12-8
		1,2-Dibromoethane	106-93-4
		1,2-Dichlorobenzene	95-50-1
		1,2-Dichloroethane	107-06-2
		1,2-Dichloropropane	78-87-5
		1,2,3-Trichlorobenzene	87-61-6
		1,2,3-Trichloropropane	96-18-4
		1,2,4-Trichlorobenzene	120-82-1
		1,3-Dichlorobenzene	541-73-1
		1,3-Dichloropropane	142-28-9
		1,4-Dichlorobenzene	106-46-7
		2-Butanone (MEK)	78-93-3

2-Chlorotoluene	95-49-8
2,2-Dichloropropane	594-20-7
4-Chlorotoluene	106-43-4
4-Methyl-2-pentanone (MIBK)	108-10-1
Acetone	67-64-1
Bromobenzene	108-86-1
Bromodichloromethane	75-27-4
Bromoform	75-25-2
Bromomethane	74-83-9
Carbon tetrachloride	56-23-5
Chlorobenzene	108-90-7
Chloroethane	75-00-3
Chloromethane	74-87-3
cis-1,2-Dichloroethene	156-59-2
cis-1,3-Dichloropropene	10061-01-5
Di-isopropyl ether	108-20-3
Dibromochloromethane	124-48-1
Dibromomethane	74-95-3
Dichlorodifluoromethane	75-71-8
Methyl tert-butyl ether	1634-04-4
Methylene Chloride	75-09-2
Styrene	100-42-5
tert-Butylbenzene	98-06-6
trans-1,2-Dichloroethene	156-60-5
trans-1,3-Dichloropropene	10061-02-6
Trichloroethylene	79-01-6
Trichlorofluoromethane	75-69-4
Vinyl chloride	75-01-4

There were 29 analytes from the Comprehensive Analyte List that could not be analyzed in the source samples due to laboratory and analytical method limitations (e.g., not all analytes on the Comprehensive Analyte List can be measured in oil samples, matrix interference for oil samples). Another four analytes, measurable by the requested methods (i.e., 8260D or 8015D) were not reported. These 33 analytes are provided in **Table 6**.

Table 6. 33 Surface Water/Soil Analytes that were Not Analyzed In the two Source material Samples

Analytical Method	Reporting Analyte*	CAS Number
2540 G-2011	Total Solids	N/A
9050AMod	Specific Conductance	N/A
CALC	Sodium Absorption Ratio (SAR)	N/A
E130.1	Hardness (colorimetric) as CaCO3	N/A
SM 2540C	Dissolved Solids	N/A
SM2320B	Alkalinity	N/A
SM2320B	Alkalinity, Bicarbonate	N/A
SM2320B	Alkalinity, Carbonate	N/A
SM2540D	Suspended Solids	N/A
SM5540C	MBAS	N/A
SW9050	Conductivity	N/A
SW9081	Cation Exchange Capacity	N/A
USDA 4F	Exchangeable Sodium Percentage	N/A
350.1	Ammonia Nitrogen	7664-41-7
9045D	pH	N/A
TOC	TOC by Walkley Black	TOC
CALC	Boron	7440-42-8
D5174	Uranium	7440-61-1
E901.1	Actinium-228 (Ra-228)	14331-83-0
E901.1	Bismuth-212	14913-49-6
E901.1	Bismuth-214 (Ra-226)	14733-03-0
E901.1	Lead-212	15092-94-1
E901.1	Lead-214	15067-28-4
E901.1	Potassium-40	13966-00-2
E901.1	Radium-226	7440-14-4
E901.1	Radium-228	15262-20-1
E901.1	Thallium-208	14913-50-9
E901.1	Thorium-234 (U-238)	15065-10-8
E901.1	Uranium-235	15117-96-1
8015D(M)	C6-C10 Gasoline Range Organic	N/A
8015D(M)	Residual Range Organics (C28-C40)	N/A
SW8260	Acrolein	107-02-8
SW8260	Fluorobenzene	462-06-6

*TPH was analyzed in the source samples but the specific hydrocarbon ranges listed in Table 6 differ from the hydrocarbon ranges analyzed in the source samples.

Laboratory reports for the two source material samples are provided in **Attachment B**. Summary tables with the two source material sample results based on the Comprehensive Analyte List, results for additional analytes not on the Comprehensive Analyte List, and ECMC Table 915-1 screening thresholds are provided in **Attachment C**.

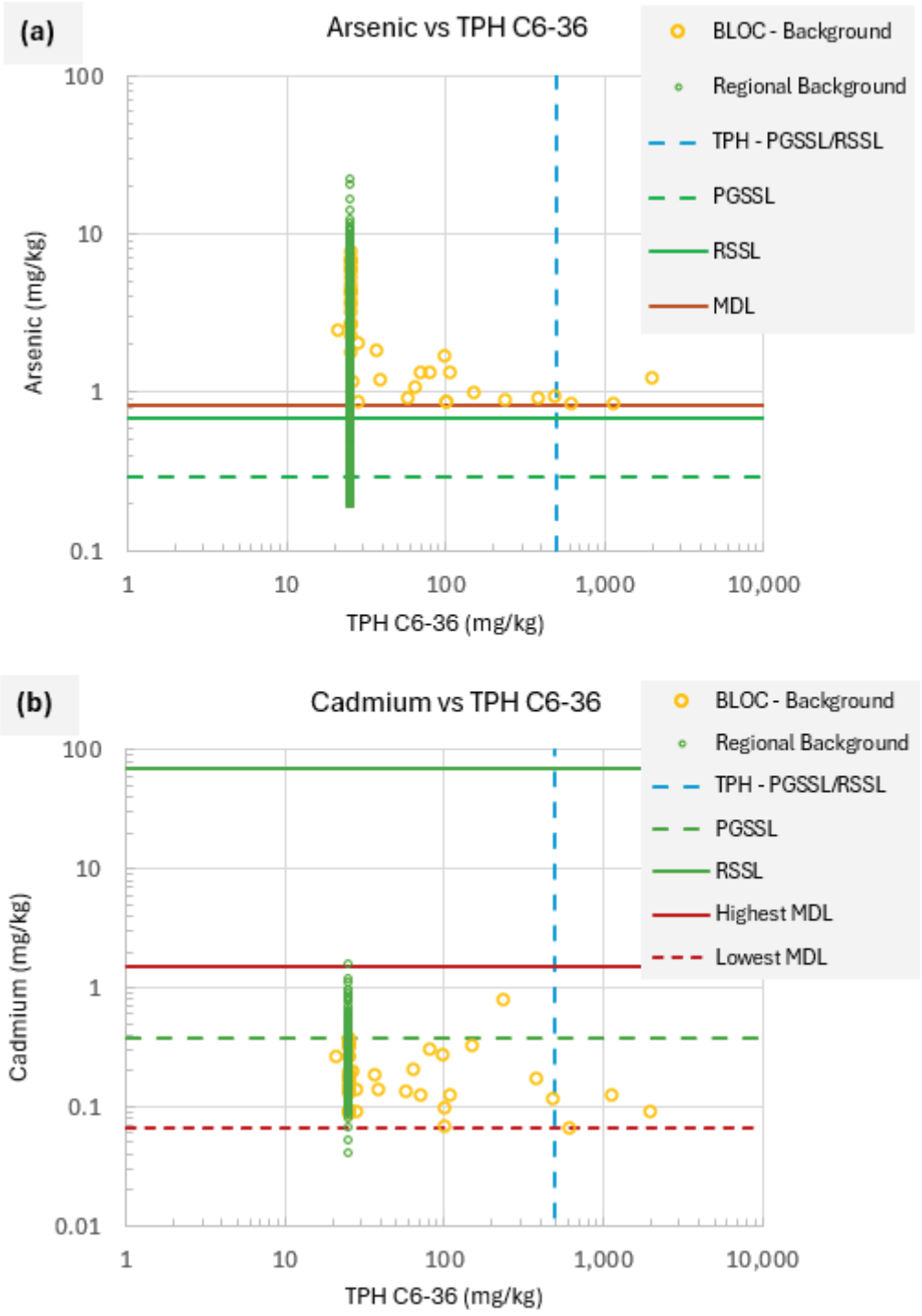
2.1 Analysis of Background Soil Conditions

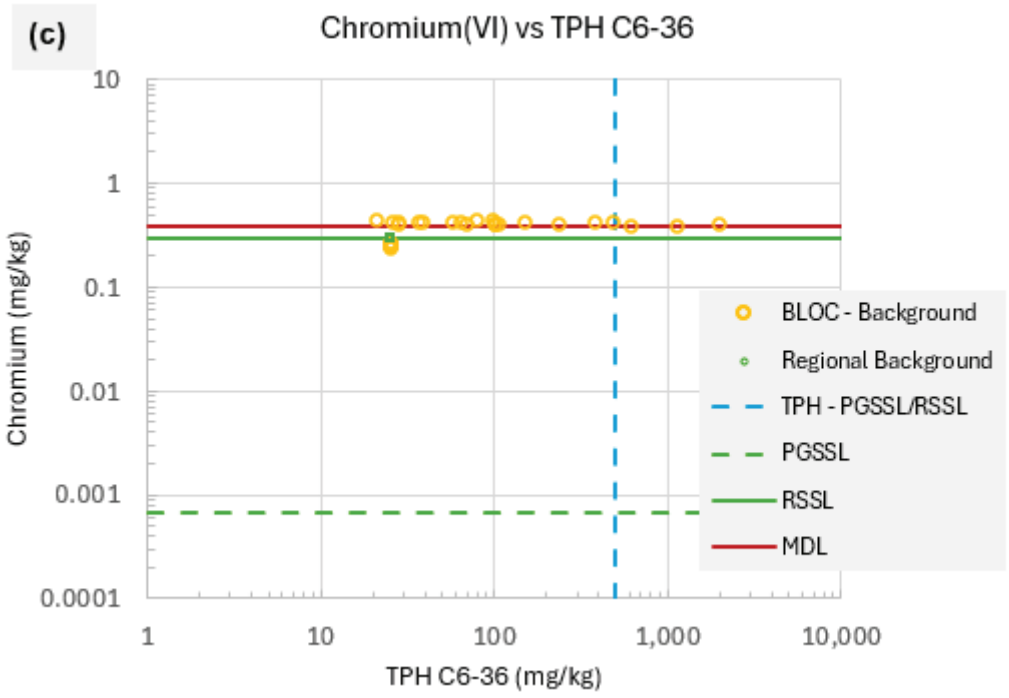
Four metals (arsenic, cadmium, hexavalent chromium and selenium) and two PAHs (dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene) were not detected in the source material samples. However, some of their respective MDLs were greater than the lowest screening levels in soil (Table 4). Soil concentrations of these four metals from 20 background locations (termed 'BLOC – Background' (Form 27 Supplemental Document # 404207320) , >2 miles from the LOC site location) were used to evaluate the range of background concentrations in comparison to various screening levels for these metals (ECMC Table 915-1 RSSL and PGSSL). In addition, soil concentrations for these four metals compiled from over 600 samples collected from background locations at the legacy PDC remediation sites between 2021-2023 (termed 'Regional Background') within 10 miles of Bishop LOC were included in this analysis. Figures 1(a) to 1(d) show concentrations in soil from 'BLOC - Background' locations for arsenic, cadmium, hexavalent chromium and selenium, respectively as a function of TPH(C6-C36) in soil. The 'Regional Background' concentrations of these metals in soil are plotted at the MDL of 25 mg/kg for TPH(C6-C36). These data indicate that:

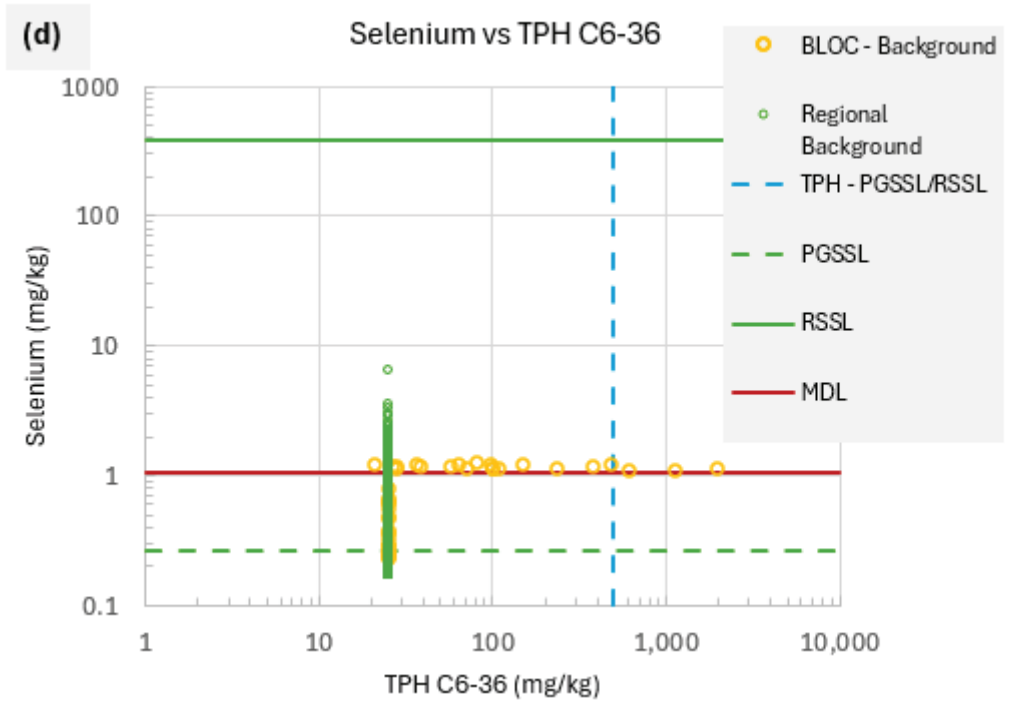
- All BLOC-Background sample results for arsenic and chromium (VI) and majority of sample results for selenium indicate that the background soil concentrations for these metals are greater than the respective lowest screening levels. Amongst Regional Background samples, 95% of the sample results for arsenic, 10% for cadmium, 100% for chromium (VI) and 71% of selenium also have soil concentrations greater than the respective lowest screening levels.
- As noted earlier, for a first-cut conservative approach, the highest MDL was used to evaluate whether that MDL exceeded the respective lowest screening level. A further discussion on cadmium is warranted; since the source material samples were analyzed by two different labs for specific objectives, the labs reported differing MDLs for some constituents including cadmium. For the same source material samples, Pace National reported cadmium concentrations to be below a lower MDL of 0.0653 mg/kg. In this context, the MDL for cadmium in source materials samples does not exceed the lowest screening level of 0.38 mg/kg and is also much lower than the BLOC – Background and Regional Background concentrations of cadmium in soil. This is also illustrated on Figure 1(b) where the two MDLs are separately displayed for clarity.

In summary, there is natural variability in the background concentrations of these four metals in soil (while exceeding PGSSL in most cases) and should be excluded from the modified analyte list. MDLs for these constituents are similar to background soil concentrations or even lower than the background concentrations. Based on this assessment, these metals are requested to not be part of the modified analytes list. As additional soil data from parcels near Bishop LOC becomes available, similar comparisons will be considered to further streamline the analytes. Additionally, we will also consider requesting applicability of ECMC Table 915-1 Footnote #9 stating " If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in ECMC Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in ECMC Table 915-1.".

Figure 1. Concentration of the four metals (a) arsenic, (b) cadmium, (c) chromium VI and (d) selenium as a function of TPH(C6-C36) in background soils. Data from background soils (Bishop LOC specific and regional, where available) are compared with ECMC Table 915-1 screening levels for TPH(C6-C36) & respective metal, and the highest MDL for source samples.




(c)
Chromium(VI) vs TPH C6-36
Chromium (mg/kg)
10
1
0.1
0.01
0.001
0.0001
1
10
100
1,000
10,000
TPH C6-36 (mg/kg)
BLOC - Background
Regional Background
TPH - PGSSL/RSSL
PGSSL
RSSL
MDL


(d)
Selenium vs TPH C6-36
Selenium (mg/kg)
1000
100
10
1
0.1
1
10
100
1,000
10,000
TPH C6-36 (mg/kg)
BLOC - Background
Regional Background
TPH - PGSSL/RSSL
PGSSL
RSSL
MDL

2.2 Process Knowledge Considerations

There are 11 radionuclides on the list of 33 analytes from the Comprehensive Analyte List that were not analyzed in the two source material samples. Based on the understanding of the source, the Conditional Part 20 Exemption for Produced Water (CDPHE letter dated February 12, 2025) would apply to this source material. As such, Noble requests that the 11 radionuclides (Actinium-228 (Ra-228), Bismuth-212, Bismuth-214 (Ra-226), Lead-212, Lead-214, Potassium-40, Radium-226, Radium-228, Thallium-208, Thorium-234 (U-238) and Uranium-235 that are analyzed by Method 901.1) be excluded from the modified analytes list.

2.3 Summary

Based on information provided above, **Attachment C**, and as described below, Noble Energy requests ECMC approval to modify the current list of environmental sample analyses to include 66 analytes. These include:

- 42 analytes on the Comprehensive Analyte List that have been detected above their respective MDLs in one or both of the source material samples and the detections are above the respective lowest screening levels (Table 2), including ECMC Table 915-1 screening levels where available. This excludes analytes that were detected but the detections were below the respective lowest screening level.
- 2 PAHs ((dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene)) for which the respective MDLs are greater than the lowest screening level for that analyte, and the background data considerations are inconclusive or background data is not available / not evaluated at this time. This excludes the four metals for which the background data comparison is available.
- 22 analytes on the Comprehensive Analyte List that were not reported / analyzed (all analytes in Table 6 excluding the 11 radionuclides analyzed by method E901.1).

Analytes that were not on the Comprehensive Analyte List, that were not detected in the source material samples, for which the laboratory MDL is less than the lowest applicable screening criteria, or for which the laboratory MDL are similar to prevalent background concentrations are proposed to not be analyzed in the future field samples. The only exceptions to this are total organic carbon (TOC) in water and soil samples and Total Hardness in water samples. Adjusting the current analyte list to a targeted, incident-specific list of COPCs is expected to have the following benefits:

- Laboratory reports and analytical summary tables will focus on COPCs related to the event that will allow ECMC and landowners to focus on COPCs instead of a large volume of unrelated analytes;
- Laboratory turnaround time (TAT) will be improved due to the more focused analytes list;
- Faster laboratory TAT and a targeted analyte list will allow more efficient data processing, review, and decision-making, which will allow cleanup and closure to occur on Sites and in the Area of Interest (AOI) more rapidly, thereby reducing impacts on the community.

Noble Energy will continue to evaluate environmental data from parcels as it becomes available and continue to assess effects of background conditions and apply any other site-specific considerations to focus future analyses of environmental media on improving remedial decisions. The proposed adjusted analytes for environmental (surface water, groundwater, and soil) sampling are provided in Section.2.4

2.4 Proposed Adjusted Analytical Methods and Analysis

Table 7 contains the proposed target analytes and general water quality methods that are proposed to be utilized for future surface water and groundwater samples following Plan approval by ECMC.

Table 7. Adjusted Surface Water and Groundwater Sampling Analysis Summary

Analysis	Method	Sample Container	Preservative	Hold Time
Volatile Organic Compounds (VOCs) – Target List[1]	US EPA 8260D	2 x 40 mL HCl VOA	HCL to pH < 2; Ice, maintained at 0-6°C	14 days
Semi-Volatile Organic Compounds (SVOCs) – Target List[2]	US EPA 8270E	2 x 100 mL glass amber	Ice, maintained at 0-6°C	7 days
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) C6-C10	US EPA 8015D/GRO	2 x 40 mL HCl VOA	HCL to pH < 2; Ice, maintained at 0-6°C	14 days
TPH – Diesel Range Organics (DRO) C10-C28 and Residual Range Organics (RRO) C28-C40	US EPA 8015D	2 x 40 mL HCl VOA	HCL to pH < 2; Ice, maintained at 0-6°C	7 days
Total Metals – Target List[3]	US EPA 6010D/6020B	1 x 250 mL poly	HNO3 to pH <2; Ice, maintained at 0-6°C	180 days
	US EPA 7199-Cr+6	1 x 50 mL poly; field filtered	Buffer; Ice, maintained at 0-6°C	Buffer pH adjust: 24 hours, as needed; Analysis: 28 days
Dissolved Metals – Target List[3]	US EPA 6020B	1 x 250 mL poly	HNO3 if field filtered; no preservation if lab filtered; Ice, maintained at 0-6°C	180 days
Anions[4]	US EPA 300.0	1 x 250 mL plastic	Ice, maintained at 0-6°C	28 days
Total Organic Carbon (TOC)	SM 5310B	1 x 250 mL amber glass	HCL to pH < 2, Ice, maintained at 0-6°C	28 days
Total Hardness	US EPA 130.1	1 x 250 mL plastic	HNO3, Ice, maintained at 0-6 °C	180 days

[1]VOC List: 1,1,2,-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1, methylnaphthalene, 2, methylnaphthalene, benzene, chloroform, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, p/m-Xylene , sec-butylbenzene, tetrachloroethylene, toluene, xylene (total)

[2]SVOC List: 1, methylnaphthalene, 2, methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene

[3] Total and Dissolved Metals List: aluminum, calcium, chromium, , iron, magnesium, manganese, potassium, sodium

[4]Anions List: bromide, chloride, fluoride, sulfate

Table 8 contains the proposed target analytes related to this incident and general soil quality methods that are proposed to be utilized for sediment/soil samples once this Plan is approved.

Table 8. Adjusted Soil Sampling Analysis Summary

Analysis	Method	Sample Container	Preservative	Hold Time
Volatile Organic Compounds (VOCs) – Target List[1]	US EPA 8260D	1 x 4 oz glass jar	Ice, maintained at 0-6°C	14 days
Semi-Volatile Organic Compounds (SVOCs) – Target List[2]	US EPA 8270E	1 x 4 oz glass jar	Ice, maintained at 0-6°C	14 days
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) C6-C10	US EPA 8015D	1 x 4 oz glass jar	Ice, maintained at 0-6°C	14 days
TPH – Diesel Range Organics (DRO) and Oil Range Organics (ORO) C10-C36	US EPA 8015D	1 x 4 oz glass jar	Ice, maintained at 0-6°C	14 days
Metals – Target List[3]	US EPA 6010D/ US EPA 7199-Cr+6	1 x 4 oz glass jar	Ice, maintained at 0-6°C	6010 - 6 months 3500-Cr - 24 hours
Anions[4]	US EPA 9056	1 x 4 oz glass jar	Ice, maintained at 0-6°C	28 days
Total Organic Carbon (TOC)	Walkley- Black Method	1 x 4 oz glass jar	Ice, maintained at 0-6°C	28 days

[1]VOC List: 1,1,2,-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1, methylnaphthalene, 2, methylnaphthalene, benzene, chloroform, ethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, p/m-Xylene, sec-butylbenzene, tetrachloroethylene, toluene, xylene (total)
[2]SVOC List: 1, methyl naphthalene, 2, methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene
[3]Metals List: aluminum, calcium, chromium, iron, lead, magnesium, manganese, nickel, potassium, silver, sodium,
[4]Anions List: bromide, chloride, fluoride, sulfate. Anions are not currently being analyzed in soil so these are additional soil analytes.

2.5 Existing Plan Amendments:

2.5.1 Surface Water and Groundwater Plans

Once approved, **Table 7** will replace Table 1 of the ESAP for surface water samples, and Table 1 of the Groundwater Monitoring Well Sampling and Analysis Plan for groundwater monitoring well samples and amended to the following plans:

- ESAP v1.6, June 16, 2025
- Groundwater Monitoring Well Sampling and Analysis Plan v1.2, May 21, 2025
    - Specific conductance and other analytes may be left in the analyte list for groundwater monitoring well samples.

2.5.2 Soil and Sediment Plans

Once approved, **Table 8** will replace Table 2 of the ESAP for all sediment, soil, and subsurface soil samples and amended to the following plans:

- ESAP v1.6, June 16, 2025
- Groundwater Monitoring Well Sampling and Analysis Plan v1.2, May 21, 2025
    - Soil boring samples will be analyzed per **Table 8**.

The following plan will not change as a result of implementing this Plan:

- Well Water Sampling and Analysis Plan (WWSAP) v2.0, April 17, 2025

Upon ECMC approval, the current list analytes will be replaced with the COPCs listed on the Tables 7 and 8 identified within Section 2 of this Plan.

Attachment A: Analytes and Methods in the Comprehensive Analyte List

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
Groundwater	1-Methylnaphthalene	8270E-SIM
	1,1-Dichloroethane	8260B
		8260D & SW8260
	1,1-Dichloroethene	8260B
		8260D & SW8260
	1,1-Dichloropropene	8260B
		8260D & SW8260
	1,1,1-Trichloroethane	8260B
		8260D & SW8260
	1,1,1,2-Tetrachloroethane	8260B
		8260D & SW8260
	1,1,2-Trichloroethane	8260B
		8260D & SW8260
	1,1,2-Trichlorotrifluoroethane	8260B
		8260D & SW8260
	1,1,2,2-Tetrachloroethane	8260B
		8260D & SW8260
	1,2-Dibromo-3-Chloropropane	8260B
		8260D & SW8260
	1,2-Dibromoethane	8260B
		8260D & SW8260
	1,2-Dichlorobenzene	8260B
		8260D & SW8260
		8270C
		8270E & SW8270
	1,2-Dichloroethane	8260B
		8260D & SW8260
	1,2-Dichloropropane	8260B
		8260D & SW8260
	1,2,3-Trichlorobenzene	8260B
		8260D & SW8260
	1,2,3-Trichloropropane	8260B
		8260D & SW8260
	1,2,3-Trimethylbenzene	8260B
		8260D & SW8260
	1,2,4-Trichlorobenzene	8260B
		8260D & SW8260
		8270C
		8270E & SW8270
	1,2,4-Trimethylbenzene	8260B
		8260D & SW8260
	1,3-Dichlorobenzene	8260B
		8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		8270C
		8270E & SW8270
	1,3-Dichloropropane	8260B
		8260D & SW8260
	1,3,5-Trimethylbenzene	8260B
		8260D & SW8260
	1,4-Dichlorobenzene	8260B
		8260D & SW8260
		8270C
		8270E & SW8270
	2-Butanone (MEK)	8260B
		8260D & SW8260
	2-Chloronaphthalene	8270C
		8270E & SW8270
	2-Chlorophenol	8270C
		8270E & SW8270
	2-Chlorotoluene	8260B
		8260D & SW8260
	2-Methylnaphthalene	8270E-SIM
	2-Nitrophenol	8270C
		8270E & SW8270
	2,2-Dichloropropane	8260B
		8260D & SW8260
	2,2-Oxybis(1-Chloropropane)	8270C
		8270E & SW8270
	2,4-Dichlorophenol	8270C
		8270E & SW8270
	2,4-Dimethylphenol	8270C
		8270E & SW8270
	2,4-Dinitrophenol	8270C
		8270E & SW8270
	2,4-Dinitrotoluene	8270C
		8270E & SW8270
	2,4,6-Trichlorophenol	8270C
		8270E & SW8270
	2,6-Dinitrotoluene	8270C
		8270E & SW8270
	3,3-Dichlorobenzidine	8270C
		8270E & SW8270
	4-Bromophenyl-phenylether	8270C
		8270E & SW8270
	4-Chloro-3-methylphenol	8270C
		8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	4-Chlorophenyl-phenylether	8270C
		8270E & SW8270
	4-Chlorotoluene	8260B
		8260D & SW8260
	4-Methyl-2-pentanone (MIBK)	8260B
		8260D & SW8260
	4-Nitrophenol	8270C
		8270E & SW8270
	4,6-Dinitro-2-methylphenol	8270C
		8270E & SW8270
	Acenaphthene	8270C
		8270E & SW8270
		8270E-SIM
	Acenaphthylene	8270C
		8270E & SW8270
	Acetone	8260B
		8260D & SW8260
	Acrolein	8260B
		8260D & SW8260
	Acrylonitrile	8260B
		8260D & SW8260
	Actinium-228 (Ra-228) 2 Sigma CE	DOE Ga-01-R/901.1
	Actinium-228 (Ra-228) TPU	DOE Ga-01-R/901.1
	Alkalinity	2320 B-2011
		SM2320B
	Alkalinity,Bicarbonate	2320 B-2011
		SM2320B
	Alkalinity,Carbonate	2320 B-2011
		SM2320B
	Aluminum	6020
		6020B
		SW6020
	Aluminum,Dissolved	6020B
		SW6020
	Ammonia Nitrogen	350.1
		E350.1
	Anthracene	8270C
		8270E & SW8270
		8270E-SIM
	Antimony	6020
		6020B
		SW6020
	Arsenic	6020

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		6020B
		SW6020
	Arsenic,Dissolved	6020B
		SW6020
	Barium	6020
		6020B
		SW6020
	Benzene	8260B
		8260D & SW8260
	Benzidine	8270C
		8270E & SW8270
	Benzo(a)anthracene	8270C
		8270E & SW8270
		8270E-SIM
	Benzo(a)pyrene	8270C
		8270E & SW8270
		8270E-SIM
	Benzo(b)fluoranthene	8270C
		8270E & SW8270
		8270E-SIM
	Benzo(g,h,i)perylene	8270C
		8270E & SW8270
	Benzo(k)fluoranthene	8270C
		8270E & SW8270
		8270E-SIM
	Benzylbutyl phthalate	8270C
		8270E & SW8270
	Beryllium	6020
		6020B
		SW6020
	Bis(2-chlorethoxy)methane	8270C
		8270E & SW8270
	Bis(2-chloroethyl)ether	8270C
		8270E & SW8270
	Bis(2-ethylhexyl)phthalate	8270C
		8270E & SW8270
	Bismuth-212 2 Sigma CE	DOE Ga-01-R/901.1
	Bismuth-212 TPU	DOE Ga-01-R/901.1
	Bismuth-214 (Ra-226) 2 Sigma CE	DOE Ga-01-R/901.1
	Bismuth-214 (Ra-226) TPU	DOE Ga-01-R/901.1
	Boron	6010D
		6020B
		SW846 6010D

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW6020
	Boron,Dissolved	6020B
	Bromide	9056A
		SW9056
	Bromobenzene	8260B
		8260D & SW8260
	Bromodichloromethane	8260B
		8260D & SW8260
	Bromoform	8260B
		8260D & SW8260
	Bromomethane	8260B
		8260D & SW8260
	C10-C28 Diesel Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
	C28-C36 Motor Oil Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
	Cadmium	6020
		6020B
		SW6020
	Cadmium,Dissolved	6020B
		SW6020
	Calcium	6010D
		6020
		6020B
		SW846 6010D
		SW6020
	Calcium,Dissolved	SW6020
	Carbon tetrachloride	8260B
		8260D & SW8260
	Chloride	9056A
		SW9056
	Chlorobenzene	8260B
		8260D & SW8260
	Chlorodibromomethane	8260B
		8260D & SW8260
	Chloroethane	8260B
		8260D & SW8260
	Chloroform	8260B
		8260D & SW8260
	Chloromethane	8260B
		8260D & SW8260
	Chromium	6020
		6020B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW6020
	Chromium,Dissolved	6020B
		SW6020
	Chromium,Trivalent	CALC
		Calc.
	Chrysene	8270C
		8270E & SW8270
		8270E-SIM
	cis-1,2-Dichloroethene	8260B
		8260D & SW8260
	cis-1,3-Dichloropropene	8260B
		8260D & SW8260
	Cobalt	6020
		6020B
		SW6020
	Copper	6020
		6020B
		SW6020
	Copper,Dissolved	6020B
		SW6020
	Di-isopropyl ether	8260B
		8260D & SW8260
	Di-n-butyl phthalate	8270C
		8270E & SW8270
	Di-n-octyl phthalate	8270C
		8270E & SW8270
	Dibenz(a,h)anthracene	8270C
		8270E & SW8270
		8270E-SIM
	Dibromomethane	8260B
		8260D & SW8260
	Dichlorodifluoromethane	8260B
		8260D & SW8260
	Diethyl phthalate	8270C
		8270E & SW8270
	Dimethyl phthalate	8270C
		8270E & SW8270
	Dissolved Solids	2540 C-2011
		SM 2540C
	Ethylbenzene	8260B
		8260D & SW8260
	Fluoranthene	8270C
		8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		8270E-SIM
	Fluorene	8270C
		8270E & SW8270
		8270E-SIM
	Fluoride	9056A
		SW9056
	Hardness (calculated) as CaCO3	SM2340B
	Hardness (colorimetric) as CaCO3	E130.1
	Hexachloro-1,3-butadiene	8260B
		8260D & SW8260
		8270C
		8270E & SW8270
	Hexachlorobenzene	8270C
		8270E & SW8270
	Hexachlorocyclopentadiene	8270C
		8270E & SW8270
	Hexachloroethane	8270C
		8270E & SW8270
	Hexavalent Chromium	3500Cr C-2011
		7199
		SM3500-CR-D
	Hot Water Sol. Boron	6010B-NE493 Ch 2
	Indeno(1,2,3-cd)pyrene	8270C
		8270E & SW8270
		8270E-SIM
	Iron	6020
		6020B
		SW6020
	Isophorone	8270C
		8270E & SW8270
	Isopropylbenzene	8260B
		8260D & SW8260
	Kjeldahl Nitrogen, TKN	351.2
		4500NOrg D-2021
		E351.2
	Lead	6020
		6020B
		SW6020
	Lead-212 2 Sigma CE	DOE Ga-01-R/901.1
	Lead-212 TPU	DOE Ga-01-R/901.1
	Lead-214 2 Sigma CE	DOE Ga-01-R/901.1
	Lead-214 TPU	DOE Ga-01-R/901.1
	Lead,Dissolved	6020B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW6020
	Magnesium	6010D
		6020
		6020B
		SW846 6010D
		SW6020
	Manganese	6020
		6020B
		SW6020
	Manganese,Dissolved	6020B
		SW6020
	MBAS	5540 C-2011
		SM5540C
	Methyl tert-butyl ether	8260B
		8260D & SW8260
	Methylene Chloride	8260B
		8260D & SW8260
	n-Butylbenzene	8260B
		8260D & SW8260
	n-Nitrosodi-n-propylamine	8270C
		8270E & SW8270
	n-Nitrosodimethylamine	8270C
		8270E & SW8270
	n-Nitrosodiphenylamine	8270C
		8270E & SW8270
	n-Propylbenzene	8260B
		8260D & SW8260
	Naphthalene	8260B
		8260D & SW8260
		8270C
		8270E & SW8270
		8270E-SIM
	Nickel	6020
		6020B
		SW6020
	Nickel,Dissolved	6020B
		SW6020
	Nitrate as (N)	9056A
		SW9056
	Nitrate-Nitrite	353.2
		9056A
		E353.2
	Nitrite as (N)	9056A

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW9056
	Nitrobenzene	8270C
		8270E & SW8270
	p-Isopropyltoluene	8260B
		8260D & SW8260
	Pentachlorophenol	8270C
		8270E & SW8270
	pH	9040C
		9045D
		SW9040
	Phenanthrene	8270C
		8270E & SW8270
	Phenol	8270C
		8270E & SW8270
	Phosphorus,Total	365.4
		E365.4
	Potassium	6020
		6020B
		SW6020
	Potassium-40 2 Sigma CE	DOE Ga-01-R/901.1
	Potassium-40 TPU	DOE Ga-01-R/901.1
	Pyrene	8270C
		8270E & SW8270
		8270E-SIM
	RADIUM-226	SM7500-RA
		SM7500Ra B M
	RADIUM-226 2 Sigma CE	SM7500Ra B M
	Radium-226 (186 KeV) 2 Sigma CE	DOE Ga-01-R/901.1
	Radium-226 (186 KeV) TPU	DOE Ga-01-R/901.1
	RADIUM-226 TPU	SM7500Ra B M
	RADIUM-228	904/9320
		E904.0
	RADIUM-228 2 Sigma CE	904/9320
	RADIUM-228 TPU	904/9320
	sec-Butylbenzene	8260B
		8260D & SW8260
	Selenium	6020
		6020B
		SW6020
	Selenium,Dissolved	6020B
		SW6020
	Silver	6020
		6020B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW6020
	Silver,Dissolved	6020B
		SW6020
	Sodium	6020
		6020B
		SW6020
	Sodium Adsorption Ratio	Calc
	Specific Conductance	9050A
		9050AMod
		SW9050
	Styrene	8260B
		8260D & SW8260
	Sulfate	9056A
		SW9056
	Sulfide	SM4500-S2-D
	Suspended Solids	2540 D-2020
		SM2540D
	tert-Butylbenzene	8260B
		8260D & SW8260
	Tetrachloroethene	8260B
		8260D & SW8260
	Thallium	6020
		6020B
		SW6020
	Thallium-208 2 Sigma CE	DOE Ga-01-R/901.1
	Thallium-208 TPU	DOE Ga-01-R/901.1
	Thorium-234 (U-238) 2 Sigma CE	DOE Ga-01-R/901.1
	Thorium-234 (U-238) TPU	DOE Ga-01-R/901.1
	TOC (Total Organic Carbon)	9060A
		SW9060
	TOC By Walkley Black	WALKLEY-BLACK
	Toluene	8260B
		8260D & SW8260
	Total Nitrogen	Calc.
	Total Solids	2540 G-2011
	TPH (GC/FID) Low Fraction	8015D, 8015D/GRO, 8015M and 2
		SW8015
	trans-1,2-Dichloroethene	8260B
		8260D & SW8260
	trans-1,3-Dichloropropene	8260B
		8260D & SW8260
	Trichloroethene	8260B
		8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Trichlorofluoromethane	8260B
		8260D & SW8260
	Uranium	D5174
	Uranium-235 2 Sigma CE	DOE Ga-01-R/901.1
	Uranium-235 TPU	DOE Ga-01-R/901.1
	Uranium,Dissolved	6020B
		SW6020
	Vanadium	6020
		6020B
		SW6020
	Vinyl chloride	8260B
		8260D & SW8260
	Xylenes, Total	8260B
		8260D & SW8260
	Zinc	6020
		6020B
		SW6020
	Zinc,Dissolved	6020B
		SW6020
Sediment	1-Methylnaphthalene	8270E & SW8270
	1,1-Dichloroethane	8260D & SW8260
	1,1-Dichloroethene	8260D & SW8260
	1,1-Dichloropropene	8260D & SW8260
	1,1,1-Trichloroethane	8260D & SW8260
	1,1,1,2-Tetrachloroethane	8260D & SW8260
	1,1,2-Trichloroethane	8260D & SW8260
	1,1,2-Trichlorotrifluoroethane	8260D & SW8260
	1,1,2,2-Tetrachloroethane	8260D & SW8260
	1,2-Dibromo-3-Chloropropane	8260D & SW8260
	1,2-Dibromoethane	8260D & SW8260
	1,2-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2-Dichloroethane	8260D & SW8260
	1,2-Dichloropropane	8260D & SW8260
	1,2,3-Trichlorobenzene	8260D & SW8260
	1,2,3-Trichloropropane	8260D & SW8260
	1,2,3-Trimethylbenzene	8260D & SW8260
	1,2,4-Trichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2,4-Trimethylbenzene	8260D & SW8260
	1,3-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,3-Dichloropropane	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	1,3,5-Trimethylbenzene	8260D & SW8260
	1,4-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,4-Dichlorobenzene-d4	8260D & SW8260
	2-Butanone (MEK)	8260D & SW8260
	2-Chloronaphthalene	8270E & SW8270
	2-Chlorophenol	8270E & SW8270
	2-Chlorotoluene	8260D & SW8260
	2-Methylnaphthalene	8270E & SW8270
	2-Nitrophenol	8270E & SW8270
	2,2-Dichloropropane	8260D & SW8260
	2,2-Oxybis(1-Chloropropane)	8270E & SW8270
	2,4-Dichlorophenol	8270E & SW8270
	2,4-Dimethylphenol	8270E & SW8270
	2,4-Dinitrophenol	8270E & SW8270
	2,4-Dinitrotoluene	8270E & SW8270
	2,4,6-Trichlorophenol	8270E & SW8270
	2,6-Dinitrotoluene	8270E & SW8270
	3,3-Dichlorobenzidine	8270E & SW8270
	4-Bromophenyl-phenylether	8270E & SW8270
	4-Chloro-3-methylphenol	8270E & SW8270
	4-Chlorophenyl-phenylether	8270E & SW8270
	4-Chlorotoluene	8260D & SW8260
	4-Methyl-2-pentanone (MIBK)	8260D & SW8260
	4-Nitrophenol	8270E & SW8270
	4,6-Dinitro-2-methylphenol	8270E & SW8270
	Acenaphthene	8270E & SW8270
	Acenaphthylene	8270E & SW8270
	Acetone	8260D & SW8260
	Acrylonitrile	8260D & SW8260
	Actinium-228 (Ra-228)	E901.1
	Aluminum	SW6010
	Ammonia Nitrogen	E350.1
	Anthracene	8270E & SW8270
	Antimony	SW6010
	Arsenic	SW6020
	Barium	SW6020
	Benzene	8260D & SW8260
	Benzidine	8270E & SW8270
	benzo(a)anthracene	8270E & SW8270
	Benzo(a)pyrene	8270E & SW8270
	Benzo(b)fluoranthene	8270E & SW8270
	Benzo(g,h,i)perylene	8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Benzo(k)fluoranthene	8270E & SW8270
	Benzylbutyl phthalate	8270E & SW8270
	Beryllium	SW6010
	Bis(2-chlorethoxy)methane	8270E & SW8270
	Bis(2-chloroethyl)ether	8270E & SW8270
	Bis(2-ethylhexyl)phthalate	8270E & SW8270
	Bismuth-214 (Ra-226)	E901.1
	Boron	SW6010
	Bromobenzene	8260D & SW8260
	Bromodichloromethane	8260D & SW8260
	Bromoform	8260D & SW8260
	Bromomethane	8260D & SW8260
	Cadmium	SW6020
	Calcium	SW6010
	Carbon tetrachloride	8260D & SW8260
	Chlorobenzene	8260D & SW8260
	Chlorobenzene-d5	8260D & SW8260
	Chlorodibromomethane	8260D & SW8260
	Chloroethane	8260D & SW8260
	Chloroform	8260D & SW8260
	Chloromethane	8260D & SW8260
	Chromium VI (hexavalent)	SW7199
	Chrysene	8270E & SW8270
	cis-1,2-Dichloroethene	8260D & SW8260
	cis-1,3-Dichloropropene	8260D & SW8260
	Cobalt	SW6010
	CONDUCTIVITY	SW9050
	Copper	SW6020
	Di-isopropyl ether	8260D & SW8260
	Di-n-butyl phthalate	8270E & SW8270
	Di-n-octyl phthalate	8270E & SW8270
	Dibenz(a,h)anthracene	8270E & SW8270
	Dibromomethane	8260D & SW8260
	Dichlorodifluoromethane	8260D & SW8260
	Diesel (C10-C28)	SW8015
	Diethyl phthalate	8270E & SW8270
	Dimethyl phthalate	8270E & SW8270
	ETHYL BENZENE	8260D & SW8260
	Fluoranthene	8270E & SW8270
	Fluorene	8270E & SW8270
	FLUOROBENZENE	8260D & SW8260
	GASOLINE RANGE HYDROCARBONS	8260D & SW8260
	Hexachloro-1,3-butadiene	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		8270E & SW8270
	Hexachlorobenzene	8270E & SW8270
	Hexachlorocyclopentadiene	8270E & SW8270
	Hexachloroethane	8270E & SW8270
	Indeno(1,2,3-cd)pyrene	8270E & SW8270
	Iron	SW6010
	Isophorone	8270E & SW8270
	Isopropylbenzene	8260D & SW8260
	Kjeldahl Nitrogen, TKN	SM4500-NORG-D
	Lead	SW6020
	Lead-214	E901.1
	Magnesium	SW6010
	Manganese	SW6010
	Methyl tert-butyl ether	8260D & SW8260
	Methylene Chloride	8260D & SW8260
	n-Butylbenzene	8260D & SW8260
	n-Nitrosodi-n-propylamine	8270E & SW8270
	n-Nitrosodimethylamine	8270E & SW8270
	n-Nitrosodiphenylamine	8270E & SW8270
	n-Propylbenzene	8260D & SW8260
	Naphthalene	8270E & SW8270
	Nickel	SW6020
	Nitrate-Nitrite	SW9056
	Nitrobenzene	8270E & SW8270
	p-Isopropyltoluene	8260D & SW8260
	Pentachlorophenol	8270E & SW8270
	pH	SW9045
	Phenanthrene	8270E & SW8270
	Phenol	8270E & SW8270
	Potassium	SW6010
	Pyrene	8270E & SW8270
	Radium-226 (186 KeV)	E901.1
	Residual Range Organics (C28-C40)	SW8015
	sec-Butylbenzene	8260D & SW8260
	Selenium	SW6020
	Silver	SW6020
	Sodium	SW6010
	Sodium Absorption Ratio (SAR)	CALC
	Styrene	8260D & SW8260
	tert-Butylbenzene	8260D & SW8260
	Tetrachloroethene	8260D & SW8260
	Thallium	SW6010
	Thorium-234 (U-238)	E901.1

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	TOC By Walkley Black	WBLACK
	TOLUENE	8260D & SW8260
	Total Nitrogen	CALC
	Total Solids	SM2540G
	trans-1,2-Dichloroethene	8260D & SW8260
	trans-1,3-Dichloropropene	8260D & SW8260
	Trichloroethene	8260D & SW8260
	Trichlorofluoromethane	8260D & SW8260
	Vanadium	SW6010
	Vinyl chloride	8260D & SW8260
	Xylenes	8260D & SW8260
	Zinc	SW6020
Soil	1-Methylnaphthalene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	1,1-Dichloroethane	8260D & SW8260
	1,1-Dichloroethene	8260D & SW8260
	1,1-Dichloropropene	8260D & SW8260
	1,1,1-Trichloroethane	8260D & SW8260
	1,1,1,2-Tetrachloroethane	8260D & SW8260
	1,1,2-Trichloroethane	8260D & SW8260
	1,1,2-Trichlorotrifluoroethane	8260D & SW8260
	1,1,2,2-Tetrachloroethane	8260D & SW8260
	1,2-Dibromo-3-Chloropropane	8260D & SW8260
	1,2-Dibromoethane	8260D & SW8260
	1,2-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2-Dichloroethane	8260D & SW8260
	1,2-Dichloropropane	8260D & SW8260
	1,2,3-Trichlorobenzene	8260D & SW8260
	1,2,3-Trichloropropane	8260D & SW8260
	1,2,3-Trimethylbenzene	8260D & SW8260
	1,2,4-Trichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2,4-Trimethylbenzene	8260D & SW8260
		EPA 8260B
	1,3-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,3-Dichloropropane	8260D & SW8260
	1,3,5-Trimethylbenzene	8260D & SW8260
		EPA 8260B
	1,4-Dichlorobenzene	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		8270E & SW8270
	1,4-Dichlorobenzene-d4	8260D & SW8260
	2-Butanone (MEK)	8260D & SW8260
	2-Chloronaphthalene	8270E & SW8270
	2-Chlorophenol	8270E & SW8270
	2-Chlorotoluene	8260D & SW8260
	2-Methylnaphthalene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	2-Nitrophenol	8270E & SW8270
	2,2-Dichloropropane	8260D & SW8260
	2,2-Oxybis(1-Chloropropane)	8270E & SW8270
	2,4-Dichlorophenol	8270E & SW8270
	2,4-Dimethylphenol	8270E & SW8270
	2,4-Dinitrophenol	8270E & SW8270
	2,4-Dinitrotoluene	8270E & SW8270
	2,4,6-Trichlorophenol	8270E & SW8270
	2,6-Dinitrotoluene	8270E & SW8270
	3,3-Dichlorobenzidine	8270E & SW8270
	4-Bromophenyl-phenylether	8270E & SW8270
	4-Chloro-3-methylphenol	8270E & SW8270
	4-Chlorophenyl-phenylether	8270E & SW8270
	4-Chlorotoluene	8260D & SW8260
	4-Methyl-2-pentanone (MIBK)	8260D & SW8260
	4-Nitrophenol	8270E & SW8270
	4,6-Dinitro-2-methylphenol	8270E & SW8270
	Acenaphthene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Acenaphthylene	8270E & SW8270
		8270E-SIM
		SW8270-SIM
	Acetone	8260D & SW8260
	Acrolein	8260D & SW8260
	Acrylonitrile	8260D & SW8260
	Actinium-228 (Ra-228)	E901.1
	Actinium-228 (Ra-228) 2 Sigma CE	DOE Ga-01-R/901.1
	Actinium-228 (Ra-228) TPU	DOE Ga-01-R/901.1
	Alkalinity	SM2320B
	Alkalinity,Bicarbonate	SM2320B
	Alkalinity,Carbonate	SM2320B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Aluminum	6010D
		SW6010
		SW6020
	Aluminum,Dissolved	SW6020
	Ammonia Nitrogen	350.1
		E350.1
	Anthracene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Antimony	6010D
		SW6010
		SW6020
	Arsenic	6020
		6020B
		SW6010
		SW6020
	Arsenic,Dissolved	SW6020
	Barium	6020
		6020B
		SW6010
		SW6020
	Benzene	8260D & SW8260
		EPA 8260B
	Benzidine	8270E & SW8270
	Benzo(a)anthracene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	benzo(a)anthracene	8270E & SW8270
	Benzo(a)pyrene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Benzo(b)fluoranthene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Benzo(g,h,i)perylene	8270E & SW8270
		8270E-SIM
		SW8270-SIM
	Benzo(k)fluoranthene	8270E & SW8270
		8270E-SIM

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		EPA 8270C-SIM
		SW8270-SIM
	Benzylbutyl phthalate	8270E & SW8270
	Beryllium	6010D
		SW6010
		SW6020
	Bis(2-chlorethoxy)methane	8270E & SW8270
	Bis(2-chloroethyl)ether	8270E & SW8270
	Bis(2-ethylhexyl)phthalate	8270E & SW8270
	Bismuth-212	E901.1
	Bismuth-214 (Ra-226)	E901.1
	Bismuth-214 (Ra-226) 2 Sigma CE	DOE Ga-01-R/901.1
	Bismuth-214 (Ra-226) TPU	DOE Ga-01-R/901.1
	Boron	SW6010
		SW6020
	Bromide	E300.0
		SW9056
	Bromobenzene	8260D & SW8260
	Bromodichloromethane	8260D & SW8260
	Bromoform	8260D & SW8260
	Bromomethane	8260D & SW8260
	C10-C28 Diesel Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
		SW8015M
	C28-C36 Motor Oil Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
		SW8015M
	Cadmium	6020
		6020B
		SW6010
		SW6020
	Cadmium,Dissolved	SW6020
	Calcium	6010D
		SW6010
		SW6020
	Carbon tetrachloride	8260D & SW8260
	Cation Exchange Capacity	SW9081
	Chloride	E300.0
		SW9056
	Chlorobenzene	8260D & SW8260
	Chlorobenzene-d5	8260D & SW8260
	Chlorodibromomethane	8260D & SW8260
	Chloroethane	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Chloroform	8260D & SW8260
	Chloromethane	8260D & SW8260
	Chromium	6010D
		SW6010
		SW6020
	Chromium VI (hexavalent)	sw7199
		SW7199
	Chromium,Dissolved	SW6020
	Chrysene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	cis-1,2-Dichloroethene	8260D & SW8260
	cis-1,3-Dichloropropene	8260D & SW8260
	Cobalt	6010D
		SW6010
		SW6020
	CONDUCTIVITY	SW9050
	Copper	6020
		6020B
		SW6010
		SW6020
	Copper,Dissolved	SW6020
	Di-isopropyl ether	8260D & SW8260
	Di-n-butyl phthalate	8270E & SW8270
	Di-n-octyl phthalate	8270E & SW8270
	Dibenz(a,h)anthracene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Dibromomethane	8260D & SW8260
	Dichlorodifluoromethane	8260D & SW8260
	Diesel (C10-C28)	SW8015
		sw8015
	Diethyl phthalate	8270E & SW8270
	Dimethyl phthalate	8270E & SW8270
	Dissolved Solids	SM 2540C
	DRO C10-C28	EPA 8015M
	ETHYL BENZENE	8260D & SW8260
	Ethylbenzene	8260D & SW8260
		EPA 8260B
	Exchangeable Sodium Percentage	USDA 4F
	Fluoranthene	8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Fluorene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Fluoride	E300.0
		SW9056
	FLUOROBENZENE	8260D & SW8260
	GASOLINE RANGE HYDROCARBONS	8260D & SW8260
	GRO C6-C10	EPA 8015M
	Hardness (colorimetric) as CaCO3	E130.1
	Hexachloro-1,3-butadiene	8260D & SW8260
		8270E & SW8270
	Hexachlorobenzene	8270E & SW8270
	Hexachlorocyclopentadiene	8270E & SW8270
	Hexachloroethane	8270E & SW8270
	Hexavalent Chromium	7199
		SW7199
	Hot Water Sol. Boron	6010B-NE493 Ch 2
		6010D (S-7.10)
		SW846 6010B
		SW6010
	Indeno(1,2,3-cd)pyrene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Iron	6010D
		SW6010
		SW6020
	Isophorone	8270E & SW8270
	Isopropylbenzene	8260D & SW8260
	Kjeldahl Nitrogen, TKN	4500NOrg D-2021
		E351.2
		SM4500-NORG-C
		SM4500-NORG-D
	Lead	6020
		6020B
		SW6010
		SW6020
	Lead-212	E901.1
	Lead-214	E901.1

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Lead-214 2 Sigma CE	DOE Ga-01-R/901.1
	Lead-214 TPU	DOE Ga-01-R/901.1
	Lead,Dissolved	SW6020
	m,p-Xylenes	EPA 8260B
	Magnesium	6010D
		SW6010
		SW6020
	Manganese	6010D
		SW6010
		SW6020
	Manganese,Dissolved	SW6020
	MBAS	SM5540C
	Mercury	SW7470
		SW7471
	Methyl tert-butyl ether	8260D & SW8260
	Methylene Chloride	8260D & SW8260
	n-Butylbenzene	8260D & SW8260
	n-Nitrosodi-n-propylamine	8270E & SW8270
	n-Nitrosodimethylamine	8270E & SW8270
	n-Nitrosodiphenylamine	8270E & SW8270
	n-Propylbenzene	8260D & SW8260
	Naphthalene	8260D & SW8260
		8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	Nickel	6020
		6020B
		SW6010
		SW6020
	Nickel,Dissolved	SW6020
	Nitrate as (N)	E300.0
		SW9056
	Nitrate-Nitrite	9056A
		SW9056
	Nitrite as (N)	E300.0
		SW9056
	Nitrobenzene	8270E & SW8270
	o-Xylene	EPA 8260B
	ORO C28-C44	EPA 8015M
	p-Isopropyltoluene	8260D & SW8260
	Pentachlorophenol	8270E & SW8270
	pH	9045D

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		9045D (S-1.10)
		SW9040
		SW9045
	Phenanthrene	8270E & SW8270
		8270E-SIM
		SW8270-SIM
	Phenol	8270E & SW8270
	Phosphorus,Total	E365.4
	Potassium	6010D
		SW6010
		SW6020
	Potassium-40	E901.1
	Pyrene	8270E & SW8270
		8270E-SIM
		EPA 8270C-SIM
		SW8270-SIM
	RADIUM-226	SM7500-RA
	Radium-226 (186 KeV)	E901.1
	Radium-226 (186 KeV) 2 Sigma CE	DOE Ga-01-R/901.1
	Radium-226 (186 KeV) TPU	DOE Ga-01-R/901.1
	Radium-226 (186 KeV)0	E901.1
	RADIUM-228	E904.0
	Residual Range Organics (C28-C40)	SW8015
		sw8015
	sec-Butylbenzene	8260D & SW8260
	Selenium	6020
		6020B
		SW6010
		SW6020
	Selenium,Dissolved	SW6020
	Silver	6020
		6020B
		SW6010
		SW6020
	Silver,Dissolved	SW6020
	Sodium	6010D
		SW6010
		SW6020
	Sodium Absorption Ratio (SAR)	CALC
		calc
	Sodium Adsorption Ratio	CALC
		Calc
	Specific Conductance	9050AMod

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		9050AMod (S-1.20)
		SW9050
	Styrene	8260D & SW8260
	Sulfate	E300.0
		SW9056
	Suspended Solids	SM2540D
	tert-Butylbenzene	8260D & SW8260
	Tetrachloroethene	8260D & SW8260
	Thallium	6010D
		SW6010
		SW6020
	Thallium-208	E901.1
	Thorium-234 (U-238)	E901.1
	Thorium-234 (U-238) 2 Sigma CE	DOE Ga-01-R/901.1
	Thorium-234 (U-238) TPU	DOE Ga-01-R/901.1
	TOC (Total Organic Carbon)	5310-B
	TOC By Walkley Black	WALKLEY-BLACK
		WBLACK
	TOLUENE	8260D & SW8260
	Toluene	8260D & SW8260
		EPA 8260B
	TOTAL HYDROCARBONS	SW8015
		sw8015
	Total Nitrogen	CALC
		Calc.
	Total Solids	2540 G-2011
		SM2540G
	TPH (GC/FID) Low Fraction	8015D, 8015D/GRO, 8015M and 2
		SW8015
	TPHDRO	SW8015
		sw8015
	trans-1,2-Dichloroethene	8260D & SW8260
	trans-1,3-Dichloropropene	8260D & SW8260
	Trichloroethene	8260D & SW8260
	Trichlorofluoromethane	8260D & SW8260
	Uranium	D5174
	Uranium-235	E901.1
	Vanadium	6010D
		SW6010
		SW6020
	Vinyl chloride	8260D & SW8260
	Xylene (total)	EPA 8260B
	Xylenes	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Xylenes, Total	8260D & SW8260
	Zinc	6020
		6020B
		SW6010
		SW6020
	Zinc,Dissolved	SW6020
Surface Water	1-Methylnaphthalene	8270E & SW8270
		SW8270-SIM
	1,1-Dichloroethane	8260D & SW8260
	1,1-Dichloroethene	8260D & SW8260
	1,1-Dichloropropene	8260D & SW8260
	1,1,1-Trichloroethane	8260D & SW8260
	1,1,1,2-Tetrachloroethane	8260D & SW8260
	1,1,2-Trichloroethane	8260D & SW8260
	1,1,2-Trichlorotrifluoroethane	8260D & SW8260
	1,1,2,2-Tetrachloroethane	8260D & SW8260
	1,2-Dibromo-3-Chloropropane	8260D & SW8260
	1,2-Dibromoethane	8260D & SW8260
	1,2-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2-Dichloroethane	8260D & SW8260
	1,2-Dichloropropane	8260D & SW8260
	1,2,3-Trichlorobenzene	8260D & SW8260
	1,2,3-Trichloropropane	8260D & SW8260
	1,2,3-Trimethylbenzene	8260D & SW8260
	1,2,4-Trichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,2,4-Trimethylbenzene	8260D & SW8260
	1,3-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,3-Dichloropropane	8260D & SW8260
	1,3,5-Trimethylbenzene	8260D & SW8260
	1,4-Dichlorobenzene	8260D & SW8260
		8270E & SW8270
	1,4-Dichlorobenzene-d4	8260D & SW8260
	2-Butanone (MEK)	8260D & SW8260
	2-Chloronaphthalene	8270E & SW8270
	2-Chlorophenol	8270E & SW8270
	2-Chlorotoluene	8260D & SW8260
	2-Methylnaphthalene	8270E & SW8270
		SW8270-SIM
	2-Nitrophenol	8270E & SW8270
	2,2-Dichloropropane	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	2,2-Oxybis(1-Chloropropane)	8270E & SW8270
	2,4-Dichlorophenol	8270E & SW8270
	2,4-Dimethylphenol	8270E & SW8270
	2,4-Dinitrophenol	8270E & SW8270
	2,4-Dinitrotoluene	8270E & SW8270
	2,4,6-Trichlorophenol	8270E & SW8270
	2,6-Dinitrotoluene	8270E & SW8270
	3,3-Dichlorobenzidine	8270E & SW8270
	4-Bromophenyl-phenylether	8270E & SW8270
	4-Chloro-3-methylphenol	8270E & SW8270
	4-Chlorophenyl-phenylether	8270E & SW8270
	4-Chlorotoluene	8260D & SW8260
	4-Methyl-2-pentanone (MIBK)	8260D & SW8260
	4-Nitrophenol	8270E & SW8270
	4,6-Dinitro-2-methylphenol	8270E & SW8270
	"1,1-Dichloroethane"	8260D & SW8260
	"1,1-Dichloroethene"	8260D & SW8260
	"1,1-Dichloropropene"	8260D & SW8260
	"1,1,1-Trichloroethane"	8260D & SW8260
	"1,1,1,2-Tetrachloroethane"	8260D & SW8260
	"1,1,2-Trichloroethane"	8260D & SW8260
	"1,1,2-Trichlorotrifluoroethane"	8260D & SW8260
	"1,1,2,2-Tetrachloroethane"	8260D & SW8260
	"1,2-Dibromo-3-Chloropropane"	8260D & SW8260
	"1,2-Dibromoethane"	8260D & SW8260
	"1,2-Dichlorobenzene"	8260D & SW8260
		8270E & SW8270
	"1,2-Dichloroethane"	8260D & SW8260
	"1,2-Dichloropropane"	8260D & SW8260
	"1,2,3-Trichlorobenzene"	8260D & SW8260
	"1,2,3-Trichloropropane"	8260D & SW8260
	"1,2,3-Trimethylbenzene"	8260D & SW8260
	"1,2,4-Trichlorobenzene"	8260D & SW8260
		8270E & SW8270
	"1,2,4-Trimethylbenzene"	8260D & SW8260
	"1,3-Dichlorobenzene"	8260D & SW8260
		8270E & SW8270
	"1,3-Dichloropropane"	8260D & SW8260
	"1,3,5-Trimethylbenzene"	8260D & SW8260
	"1,4-Dichlorobenzene"	8260D & SW8260
		8270E & SW8270
	"2,2-Dichloropropane"	8260D & SW8260
	"2,2-Oxybis(1-Chloropropane)"	8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	"2,4-Dichlorophenol"	8270E & SW8270
	"2,4-Dimethylphenol"	8270E & SW8270
	"2,4-Dinitrophenol"	8270E & SW8270
	"2,4-Dinitrotoluene"	8270E & SW8270
	"2,4,6-Trichlorophenol"	8270E & SW8270
	"2,6-Dinitrotoluene"	8270E & SW8270
	"3,3-Dichlorobenzidine"	8270E & SW8270
	"4,6-Dinitro-2-methylphenol"	8270E & SW8270
	"Alkalinity,Bicarbonate"	2320 B-2011
	"Alkalinity,Carbonate"	2320 B-2011
	"Aluminum,Dissolved"	6020B
	"Arsenic,Dissolved"	6020B
	"Benzo(g,h,i)perylene"	8270E & SW8270
	"Cadmium,Dissolved"	6020B
	"Chromium,Dissolved"	6020B
	"cis-1,2-Dichloroethene"	8260D & SW8260
	"cis-1,3-Dichloropropene"	8260D & SW8260
	"Copper,Dissolved"	6020B
	"Dibenz(a,h)anthracene"	8270E & SW8270
	"Hexachloro-1,3-butadiene"	8260D & SW8260
		8270E & SW8270
	"Indeno(1,2,3-cd)pyrene"	8270E & SW8270
	"Kjeldahl Nitrogen, TKN"	351.2
	"Lead,Dissolved"	6020B
	"Manganese,Dissolved"	6020B
	"Nickel,Dissolved"	6020B
	"Phosphorus,Total"	365.4
	"Selenium,Dissolved"	6020B
	"Silver,Dissolved"	6020B
	"trans-1,2-Dichloroethene"	8260D & SW8260
	"trans-1,3-Dichloropropene"	8260D & SW8260
	"Xylenes, Total"	8260D & SW8260
	"Zinc,Dissolved"	6020B
	Acenaphthene	8270E & SW8270
		SW8270-SIM
	Acenaphthylene	8270E & SW8270
		SW8270-SIM
	Acetone	8260D & SW8260
	Acrolein	8260D & SW8260
	Acrylonitrile	8260D & SW8260
	Actinium-228 (Ra-228)	E901.1
	Alkalinity	2320 B-2011
		SM2320B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Alkalinity,Bicarbonate	2320 B-2011
		SM2320B
	Alkalinity,Carbonate	2320 B-2011
		SM2320B
	Aluminum	6020B
		SW6010
		SW6020
	Aluminum,Dissolved	6020B
		SW6020
	Ammonia Nitrogen	350.1
		E350.1
	Anthracene	8270E & SW8270
		SW8270-SIM
	Antimony	6020B
		SW6010
		SW6020
	Arsenic	6020B
		E200.8
		SW6020
	Arsenic,Dissolved	6020B
		SW6020
	Barium	6020B
		E200.8
		SW6020
	Benzene	8260D & SW8260
	Benzidine	8270E & SW8270
	Benzo(a)anthracene	8270E & SW8270
		SW8270-SIM
	benzo(a)anthracene	8270E & SW8270
	Benzo(a)pyrene	8270E & SW8270
		SW8270-SIM
	Benzo(b)fluoranthene	8270E & SW8270
		SW8270-SIM
	Benzo(g,h,i)perylene	8270E & SW8270
		SW8270-SIM
	Benzo(k)fluoranthene	8270E & SW8270
		SW8270-SIM
	Benzylbutyl phthalate	8270E & SW8270
	Beryllium	6020B
		SW6010
		SW6020
	Bis(2-chlorethoxy)methane	8270E & SW8270
	Bis(2-chloroethyl)ether	8270E & SW8270

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Bis(2-ethylhexyl)phthalate	8270E & SW8270
	Bismuth-214 (Ra-226)	E901.1
	Boron	6020B
		SW6020
	Bromide	300
		300.0
		E300.0
	Bromobenzene	8260D & SW8260
	Bromodichloromethane	8260D & SW8260
	Bromoform	8260D & SW8260
	Bromomethane	8260D & SW8260
	C10-C28 Diesel Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
		SW8015M
	C28-C36 Motor Oil Range	8015D, 8015D/GRO, 8015M and 2
		SW8015
		SW8015M
	Cadmium	6020B
		E200.8
		SW6020
	Cadmium,Dissolved	6020B
		SW6020
	Calcium	6020B
		SW6010
		SW6020
	Carbon tetrachloride	8260D & SW8260
	Chloride	300
		300.0
		E300.0
	Chlorobenzene	8260D & SW8260
	Chlorobenzene-d5	8260D & SW8260
	Chlorodibromomethane	8260D & SW8260
	Chloroethane	8260D & SW8260
	Chloroform	8260D & SW8260
	Chloromethane	8260D & SW8260
	Chromium	6020B
		SW6010
		SW6020
	Chromium,Dissolved	6020B
		SW6020
	Chrysene	8270E & SW8270
		SW8270-SIM
	cis-1,2-Dichloroethene	8260D & SW8260

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	cis-1,3-Dichloropropene	8260D & SW8260
	Cobalt	6020B
		SW6010
		SW6020
	Copper	6020B
		E200.8
		SW6020
	Copper,Dissolved	6020B
		SW6020
	Di-isopropyl ether	8260D & SW8260
	Di-n-butyl phthalate	8270E & SW8270
	Di-n-octyl phthalate	8270E & SW8270
	Dibenz(a,h)anthracene	8270E & SW8270
		SW8270-SIM
	Dibromomethane	8260D & SW8260
	Dichlorodifluoromethane	8260D & SW8260
	Diethyl phthalate	8270E & SW8270
	Dimethyl phthalate	8270E & SW8270
	Dissolved Solids	2540 C-2011
		SM 2540C
	ETHYL BENZENE	8260D & SW8260
	Ethylbenzene	8260D & SW8260
	Fluoranthene	8270E & SW8270
		SW8270-SIM
	Fluorene	8270E & SW8270
		SW8270-SIM
	Fluoride	300
		300.0
		E300.0
	FLUOROBENZENE	8260D & SW8260
	Hardness (colorimetric) as CaCO3	130.1
		E130.1
	Hexachloro-1,3-butadiene	8260D & SW8260
		8270E & SW8270
	Hexachlorobenzene	8270E & SW8270
	Hexachlorocyclopentadiene	8270E & SW8270
	Hexachloroethane	8270E & SW8270
	Hexavalent Chromium	7199
		SW7199
	Hot Water Sol. Boron	SW846 6010B
	Indeno(1,2,3-cd)pyrene	8270E & SW8270
		SW8270-SIM
	Iron	6020B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		SW6010
		SW6020
	Isophorone	8270E & SW8270
	Isopropylbenzene	8260D & SW8260
	Kjeldahl Nitrogen, TKN	351.2
		E351.2
		SM4500-NORG-D
	Lead	6020B
		E200.8
		SW6020
	Lead-214	E901.1
	Lead,Dissolved	6020B
		SW6020
	Magnesium	6020B
		SW6010
		SW6020
	Manganese	6020B
		SW6010
		SW6020
	Manganese,Dissolved	6020B
		SW6020
	MBAS	5540 C-2011
		SM5540C
	Mercury	7470A
		SW7470
	Methyl tert-butyl ether	8260D & SW8260
	Methylene Chloride	8260D & SW8260
	n-Butylbenzene	8260D & SW8260
	n-Nitrosodi-n-propylamine	8270E & SW8270
	n-Nitrosodimethylamine	8270E & SW8270
	n-Nitrosodiphenylamine	8270E & SW8270
	n-Propylbenzene	8260D & SW8260
	Naphthalene	8260D & SW8260
		8270E & SW8270
		SW8270-SIM
	Nickel	6020B
		E200.8
		SW6020
	Nickel,Dissolved	6020B
		SW6020
	Nitrate as (N)	300
		300.0
		E300.0

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Nitrate-Nitrite	E353.2
		SW9056
	Nitrite as (N)	300
		300.0
		E300.0
	Nitrobenzene	8270E & SW8270
	p-Isopropyltoluene	8260D & SW8260
	Pentachlorophenol	8270E & SW8270
	pH	9040C
		SW9040
		SW9045
	Phenanthrene	8270E & SW8270
		SW8270-SIM
	Phenol	8270E & SW8270
	Phosphorus,Total	365.4
		E365.4
	Potassium	6020B
		SW6010
		SW6020
	Pyrene	8270E & SW8270
		SW8270-SIM
	RADIUM-226	SM7500-RA
		SM7500Ra B M
	Radium-226	SM7500Ra B M
	Radium-226 2 Sigma CE	SM7500Ra B M
	RADIUM-226 2 Sigma CE	SM7500Ra B M
	Radium-226 (186 KeV)	E901.1
	Radium-226 TPU	SM7500Ra B M
	RADIUM-226 TPU	SM7500Ra B M
	RADIUM-228	904/9320
		E904.0
	Radium-228	904/9320
	Radium-228 2 Sigma CE	904/9320
	RADIUM-228 2 Sigma CE	904/9320
	Radium-228 TPU	904/9320
	RADIUM-228 TPU	904/9320
	sec-Butylbenzene	8260D & SW8260
	Selenium	6020B
		E200.8
		SW6020
	Selenium,Dissolved	6020B
		SW6020
	Silver	6020B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
		E200.8
		SW6020
	Silver,Dissolved	6020B
		SW6020
	Sodium	6020B
		SW6010
		SW6020
	Sodium Adsorption Ratio	Calc
	Specific Conductance	SW9050
	Styrene	8260D & SW8260
	Sulfate	300
		300.0
		E300.0
	Suspended Solids	2540 D-2020
		SM2540D
	tert-Butylbenzene	8260D & SW8260
	Tetrachloroethene	8260D & SW8260
	Thallium	6020B
		SW6010
		SW6020
	Thorium-234 (U-238)	E901.1
	TOC (Total Organic Carbon)	5310 B-2014
		5310-B
		SW9060
	TOC By Walkley Black	WBLACK
	TOLUENE	8260D & SW8260
	Toluene	8260D & SW8260
	Total Dissolved Solids	SM 2540C
	Total Nitrogen	CALC
		Calc.
		SM1030
	Total Solids	SM2540G
	TPH (GC/FID) Low Fraction	8015D, 8015D/GRO, 8015M and 2
		SW8015
	trans-1,2-Dichloroethene	8260D & SW8260
	trans-1,3-Dichloropropene	8260D & SW8260
	Trichloroethene	8260D & SW8260
	Trichlorofluoromethane	8260D & SW8260
	Uranium	D5174
	Uranium 2 Sigma CE	D5174
	Vanadium	6020B
		SW6010
		SW6020

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Vinyl chloride	8260D & SW8260
	Xylenes	8260D & SW8260
	Xylenes, Total	8260D & SW8260
	Zinc	6020B
		E200.8
		SW6020
	Zinc,Dissolved	6020B
		SW6020
Surface Wipe	1-Methylnaphthalene	8270E & SW8270
		EPA 8270C-SIM
	1,2,4-Trimethylbenzene	EPA 8260B
	1,3,5-Trimethylbenzene	EPA 8260B
	2-Methylnaphthalene	8270E & SW8270
		EPA 8270C-SIM
	Acenaphthene	8270E & SW8270
		EPA 8270C-SIM
	Anthracene	8270E & SW8270
		EPA 8270C-SIM
	Benzene	EPA 8260B
	Benzo(a)anthracene	EPA 8270C-SIM
	benzo(a)anthracene	8270E & SW8270
	Benzo(a)pyrene	8270E & SW8270
		EPA 8270C-SIM
	Benzo(b)fluoranthene	8270E & SW8270
		EPA 8270C-SIM
	Benzo(k)fluoranthene	8270E & SW8270
		EPA 8270C-SIM
	Chrysene	8270E & SW8270
		EPA 8270C-SIM
	Dibenz(a,h)anthracene	8270E & SW8270
		EPA 8270C-SIM
	Diesel (C10-C28)	SW8015
	DRO C10-C28	EPA 8015M
	Ethylbenzene	EPA 8260B
	Fluoranthene	8270E & SW8270
		EPA 8270C-SIM
	Fluorene	8270E & SW8270
		EPA 8270C-SIM
	Gasoline (C6-C10)	SW8015
	GRO C6-C10	EPA 8015M
	Indeno(1,2,3-cd)pyrene	8270E & SW8270
		EPA 8270C-SIM
	m,p-Xylenes	EPA 8260B

Attachment A. Analytes and Methods in the Comprehensive Analyte List

Matrix	Analyte	Analytical Method
	Naphthalene	8270E & SW8270
		EPA 8270C-SIM
	o-Xylene	EPA 8260B
	ORO C28-C44	EPA 8015M
	Pyrene	8270E & SW8270
		EPA 8270C-SIM
	Residual Range Organics (C28-C40)	SW8015
	Toluene	EPA 8260B
	Xylene (total)	EPA 8260B

Attachment B: Laboratory Reports

Attachment B1: Laboratory Reports - Pace

ANALYTICAL REPORT

June 06, 2025

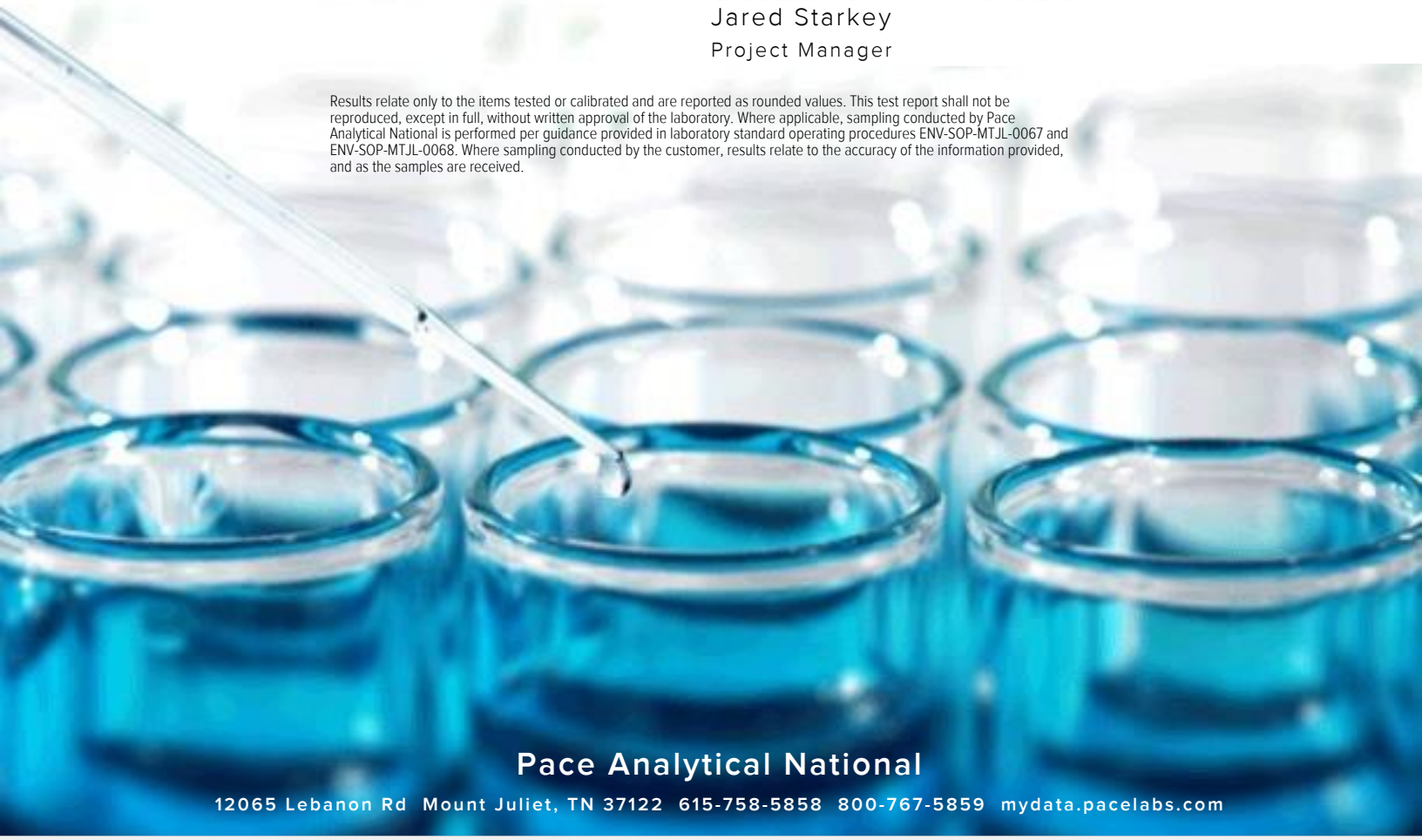
Revised Report

CTEH - ER

Sample Delivery Group:	L1848058
Samples Received:	04/15/2025
Project Number:	PROJ-054017
Description:	Bishop Loss of Containment Incident
Report To:	CTEH 5120 North Shore Drive North Little Rock, AR 72118

Entire Report Reviewed By:

Jared Starkey
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 7

GACO0408SC001 L1848058-01 7

GACO0408SC002 L1848058-02 11

Qc: Quality Control Summary 15

Wet Chemistry by Method 365.4M 15

Wet Chemistry by Method 4500NOrg D-2021 16

Wet Chemistry by Method 7199 17

Wet Chemistry by Method 9056A 18

Mercury by Method 7471B 20

Metals (ICP) by Method 6010D 21

Volatile Organic Compounds (GC) by Method 8015D/GRO 23

Volatile Organic Compounds (GC/MS) by Method 8260D 24

Semi-Volatile Organic Compounds (GC) by Method 8015M 28

Semi Volatile Organic Compounds (GC/MS) by Method 8270E 29

Gl: Glossary of Terms 35

Al: Accreditations & Locations 37

Sc: Sample Chain of Custody 38

SAMPLE SUMMARY

GACO0408SC001 L1848058-01

Collected by	Collected date/time	Received date/time
	04/08/25 13:51	04/15/25 18:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2491612	1	04/15/25 22:29	04/16/25 09:19	KMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2491829	1	04/15/25 22:29	04/16/25 10:28	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2491612	1	04/15/25 22:29	04/16/25 09:19	KMB	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2491631	1	04/16/25 09:00	04/16/25 19:33	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2491528	1	04/15/25 20:46	04/16/25 01:46	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2491528	5	04/15/25 20:46	04/16/25 02:11	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2491795	1	04/16/25 08:07	04/16/25 09:45	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2491623	1	04/15/25 21:02	04/16/25 10:37	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2491594	100	04/08/25 13:51	04/15/25 21:27	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2491629	40	04/08/25 13:51	04/16/25 00:35	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2491580	294	04/15/25 21:15	04/16/25 00:39	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2491579	143	04/15/25 21:15	04/16/25 00:15	JTO	Mt. Juliet, TN

GACO0408SC002 L1848058-02

Collected by	Collected date/time	Received date/time
	04/08/25 13:53	04/15/25 18:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2491612	1	04/15/25 22:29	04/16/25 09:21	KMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2491829	1	04/15/25 22:29	04/16/25 10:30	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2491612	1	04/15/25 22:29	04/16/25 09:21	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2491528	1	04/15/25 20:46	04/16/25 02:35	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2491795	1	04/16/25 08:07	04/16/25 09:48	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2491623	1	04/15/25 21:02	04/16/25 10:42	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2491594	250	04/08/25 13:53	04/15/25 21:46	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2491629	20	04/08/25 13:53	04/16/25 00:53	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2491580	560	04/15/25 21:15	04/16/25 00:52	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2491579	147	04/15/25 21:15	04/16/25 00:36	JNJ	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Report Revision History

Level II Report - Version 1: 04/17/25 10:59
Level II Report - Version 2: 05/01/25 13:23
Level II Report - Version 3: 05/29/25 11:25
Level II Report - Version 4: 06/04/25 20:12
Level II Report - Version 5: 06/05/25 12:35

Project Comments

Based on information provided by the client, the samples were collected by Wild Well on 4/8/25. Samples along with the associated chain of custody were relinquished from CTEH to SPL in Greeley, CO on 4/9/25 at 17:23. CTEH requested the transfer of samples from SPL to Pace, which occurred on 4/14/25.

Pace can confirm a cooler was picked up from SPL; at this time the Pace courier requested a COC and was told there was no COC available. The Pace courier iced and packaged the samples, and shipped them to Pace National in Mt. Juliet, TN. The samples arrived at Pace National on 4/15/25 in good condition and at proper temperature. The client was notified about the missing COC, and a COC was provided by email, and is included on Page 38.

Limited volume was received. Analyses were performed as directed by client based on sample volume and matrix.

Anions were analyzed from the water layer.

Wet Chemistry by Method 9056A

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2491528	(DUP) R4200184-3	Chloride

Mercury by Method 7471B

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2491795	(MS) R4200278-4, (MSD) R4200278-5	Mercury

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2491795	(MSD) R4200278-5	Mercury

Metals (ICP) by Method 6010D

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2491623	(MS) R4200532-5, (MSD) R4200532-6	Aluminum and Manganese

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2491623	(MS) R4200532-5, (MSD) R4200532-6	Calcium and Iron

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2491623	(MSD) R4200532-6	Iron and Manganese

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2491629	L1848058-01	4-Methyl-2-pentanone (MIBK), Acetone, Acrylonitrile, Chloromethane, Di-isopropyl ether and Hexachloro-1,3-butadiene
WG2491629	L1848058-02	4-Methyl-2-pentanone (MIBK), Acetone, Acrylonitrile, Chloromethane, Di-isopropyl ether and Hexachloro-1,3-butadiene

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG2491629	Toluene	L1848058-01, 02

The associated batch QC exceeded the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2491629	L1848058-01, 02	Acetone and Trichlorofluoromethane

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2491629	(LCS) R4200154-1, (LCSD) R4200154-2, L1848058-01, 02	Di-isopropyl ether

Semi-Volatile Organic Compounds (GC) by Method 8015M

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2491580	(MS) R4200159-3	C10-C28 Diesel Range
WG2491580	(MSD) R4200159-4	C10-C28 Diesel Range

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2491580	o-Terphenyl	(MS) R4200159-3, (MSD) R4200159-4, L1848058-01, 02

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2491580	(MS) R4200159-3, (MSD) R4200159-4, L1848058-02	C10-C28 Diesel Range

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The initial calibration verification standard (SSCV) associated with this data responded high.

Batch	Lab Sample ID	Analytes
WG2491579	L1848058-01	Benzidine
WG2491579	L1848058-02	Benzidine

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2491579	L1848058-01	Hexachlorocyclopentadiene
WG2491579	L1848058-02	Hexachlorocyclopentadiene

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2491579	Nitrobenzene-d5	(MS) R4200143-3, (MSD) R4200143-4, L1848058-01, 02

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2491579	(MS) R4200143-3, (MSD) R4200143-4, L1848058-02	39 analytes

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2491579	(MS) R4200143-3, (MSD) R4200143-4, L1848058-02	Chrysene, Di-n-octyl phthalate, Fluorene, Naphthalene and Phenanthrene

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2491579	(MSD) R4200143-4, L1848058-02	1,2-Dichlorobenzene, 2-Chlorophenol and Chrysene

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	U		0.606	10.0	1	04/16/2025 09:19	WG2491612

Wet Chemistry by Method 365.4M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	U		16.0	20.0	1	04/16/2025 10:28	WG2491829

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	U		15.2	20.0	1	04/16/2025 09:19	WG2491612

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	04/16/2025 19:33	WG2491631

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromide	18.1		4.10	10.0	1	04/16/2025 01:46	WG2491528
Chloride	1930		31.8	100	5	04/16/2025 02:11	WG2491528
Fluoride	0.909	J	0.706	2.00	1	04/16/2025 01:46	WG2491528
Nitrate as (N)	U		0.952	10.0	1	04/16/2025 01:46	WG2491528
Nitrite as (N)	U		0.606	10.0	1	04/16/2025 01:46	WG2491528
Sulfate	30.2	J	8.24	50.0	1	04/16/2025 01:46	WG2491528

Mercury by Method 7471B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	U		0.0206	0.0400	1	04/16/2025 09:45	WG2491795

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aluminum	69.5		6.08	20.0	1	04/16/2025 10:37	WG2491623
Antimony	U		0.691	2.00	1	04/16/2025 10:37	WG2491623
Arsenic	U		0.837	2.00	1	04/16/2025 10:37	WG2491623
Barium	11.9		0.0850	0.500	1	04/16/2025 10:37	WG2491623
Beryllium	U		0.0477	0.200	1	04/16/2025 10:37	WG2491623
Cadmium	U		0.0653	0.500	1	04/16/2025 10:37	WG2491623
Calcium	125		19.0	100	1	04/16/2025 10:37	WG2491623
Chromium	0.617	J	0.214	1.00	1	04/16/2025 10:37	WG2491623
Cobalt	U		0.177	1.00	1	04/16/2025 10:37	WG2491623
Copper	0.376	J	0.357	2.00	1	04/16/2025 10:37	WG2491623
Iron	203		2.24	10.0	1	04/16/2025 10:37	WG2491623
Lead	U		0.326	0.500	1	04/16/2025 10:37	WG2491623
Magnesium	U		19.9	100	1	04/16/2025 10:37	WG2491623
Manganese	1.54		0.173	1.00	1	04/16/2025 10:37	WG2491623
Nickel	U		0.200	2.00	1	04/16/2025 10:37	WG2491623
Potassium	45.1	J	20.9	100	1	04/16/2025 10:37	WG2491623
Selenium	U		1.07	2.00	1	04/16/2025 10:37	WG2491623
Silver	U		0.127	1.00	1	04/16/2025 10:37	WG2491623

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Sodium	1250		41.2	100	1	04/16/2025 10:37	WG2491623
Thallium	U		0.518	2.00	1	04/16/2025 10:37	WG2491623
Vanadium	U		0.383	2.00	1	04/16/2025 10:37	WG2491623
Zinc	1.88	J	0.974	5.00	1	04/16/2025 10:37	WG2491623

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	125		2.17	10.0	100	04/15/2025 21:27	WG2491594
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-120*		*04/15/2025 21:27*	WG2491594

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3 J4	1.46	2.00	40	04/16/2025 00:35	WG2491629
Acrylonitrile	U	C3	0.144	0.500	40	04/16/2025 00:35	WG2491629
Benzene	0.852		0.0187	0.0400	40	04/16/2025 00:35	WG2491629
Bromobenzene	U		0.0360	0.500	40	04/16/2025 00:35	WG2491629
Bromodichloromethane	U		0.0290	0.100	40	04/16/2025 00:35	WG2491629
Bromoform	U		0.0468	1.00	40	04/16/2025 00:35	WG2491629
Bromomethane	U		0.0788	0.500	40	04/16/2025 00:35	WG2491629
n-Butylbenzene	0.217	J	0.210	0.500	40	04/16/2025 00:35	WG2491629
sec-Butylbenzene	0.300	J	0.115	0.500	40	04/16/2025 00:35	WG2491629
tert-Butylbenzene	U		0.0780	0.200	40	04/16/2025 00:35	WG2491629
Carbon tetrachloride	U		0.0359	0.200	40	04/16/2025 00:35	WG2491629
Chlorobenzene	U		0.00840	0.100	40	04/16/2025 00:35	WG2491629
Chlorodibromomethane	U		0.0245	0.100	40	04/16/2025 00:35	WG2491629
Chloroethane	U		0.0680	0.200	40	04/16/2025 00:35	WG2491629
Chloroform	0.0770	J	0.0412	0.100	40	04/16/2025 00:35	WG2491629
Chloromethane	U	C3	0.174	0.500	40	04/16/2025 00:35	WG2491629
2-Chlorotoluene	U		0.0346	0.100	40	04/16/2025 00:35	WG2491629
4-Chlorotoluene	U		0.0180	0.200	40	04/16/2025 00:35	WG2491629
1,2-Dibromo-3-Chloropropane	U		0.156	1.00	40	04/16/2025 00:35	WG2491629
1,2-Dibromoethane	U		0.0259	0.100	40	04/16/2025 00:35	WG2491629
Dibromomethane	U		0.0300	0.200	40	04/16/2025 00:35	WG2491629
1,2-Dichlorobenzene	U		0.0170	0.200	40	04/16/2025 00:35	WG2491629
1,3-Dichlorobenzene	U		0.0240	0.200	40	04/16/2025 00:35	WG2491629
1,4-Dichlorobenzene	U		0.0280	0.200	40	04/16/2025 00:35	WG2491629
Dichlorodifluoromethane	U		0.0644	0.200	40	04/16/2025 00:35	WG2491629
1,1-Dichloroethane	U		0.0196	0.100	40	04/16/2025 00:35	WG2491629
1,2-Dichloroethane	U		0.0260	0.100	40	04/16/2025 00:35	WG2491629
1,1-Dichloroethene	U		0.0242	0.100	40	04/16/2025 00:35	WG2491629
cis-1,2-Dichloroethene	U		0.0294	0.100	40	04/16/2025 00:35	WG2491629
trans-1,2-Dichloroethene	U		0.0416	0.200	40	04/16/2025 00:35	WG2491629
1,2-Dichloropropane	U		0.0568	0.200	40	04/16/2025 00:35	WG2491629
1,1-Dichloropropene	U		0.0324	0.100	40	04/16/2025 00:35	WG2491629
1,3-Dichloropropane	U		0.0200	0.200	40	04/16/2025 00:35	WG2491629
cis-1,3-Dichloropropene	U		0.0303	0.100	40	04/16/2025 00:35	WG2491629
trans-1,3-Dichloropropene	U		0.0456	0.200	40	04/16/2025 00:35	WG2491629
2,2-Dichloropropane	U		0.0552	0.100	40	04/16/2025 00:35	WG2491629
Di-isopropyl ether	U	C3 J4	0.0164	0.0400	40	04/16/2025 00:35	WG2491629
Ethylbenzene	1.35		0.0295	0.100	40	04/16/2025 00:35	WG2491629
Hexachloro-1,3-butadiene	U	C3	0.240	1.00	40	04/16/2025 00:35	WG2491629
Isopropylbenzene	0.373		0.0170	0.100	40	04/16/2025 00:35	WG2491629
p-Isopropyltoluene	0.637		0.102	0.200	40	04/16/2025 00:35	WG2491629

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		2.54	4.00	40	04/16/2025 00:35	WG2491629
Methylene Chloride	U		0.266	1.00	40	04/16/2025 00:35	WG2491629
4-Methyl-2-pentanone (MIBK)	U	C3	0.0912	1.00	40	04/16/2025 00:35	WG2491629
Methyl tert-butyl ether	U		0.0140	0.0400	40	04/16/2025 00:35	WG2491629
Naphthalene	2.23		0.195	0.500	40	04/16/2025 00:35	WG2491629
n-Propylbenzene	0.919		0.0380	0.200	40	04/16/2025 00:35	WG2491629
Styrene	U		0.00916	0.500	40	04/16/2025 00:35	WG2491629
1,1,1,2-Tetrachloroethane	U		0.0379	0.100	40	04/16/2025 00:35	WG2491629
1,1,2,2-Tetrachloroethane	U		0.0278	0.100	40	04/16/2025 00:35	WG2491629
1,1,2-Trichlorotrifluoroethane	U		0.0302	0.100	40	04/16/2025 00:35	WG2491629
Tetrachloroethene	0.0600	J	0.0358	0.100	40	04/16/2025 00:35	WG2491629
Toluene	6.58	B	0.0520	0.200	40	04/16/2025 00:35	WG2491629
1,2,3-Trichlorobenzene	U		0.293	0.500	40	04/16/2025 00:35	WG2491629
1,2,4-Trichlorobenzene	U		0.176	0.500	40	04/16/2025 00:35	WG2491629
1,1,1-Trichloroethane	U		0.0369	0.100	40	04/16/2025 00:35	WG2491629
1,1,2-Trichloroethane	U		0.0239	0.100	40	04/16/2025 00:35	WG2491629
Trichloroethene	U		0.0234	0.0400	40	04/16/2025 00:35	WG2491629
Trichlorofluoromethane	U	J3 J4	0.0331	0.100	40	04/16/2025 00:35	WG2491629
1,2,3-Trichloropropane	U		0.0648	0.500	40	04/16/2025 00:35	WG2491629
1,2,4-Trimethylbenzene	6.56		0.0632	0.200	40	04/16/2025 00:35	WG2491629
1,2,3-Trimethylbenzene	2.03		0.0632	0.200	40	04/16/2025 00:35	WG2491629
1,3,5-Trimethylbenzene	1.91		0.0800	0.200	40	04/16/2025 00:35	WG2491629
Vinyl chloride	U		0.0464	0.100	40	04/16/2025 00:35	WG2491629
Xylenes, Total	14.3		0.0352	0.260	40	04/16/2025 00:35	WG2491629
(S) Toluene-d8	*107*			*75.0-131*		*04/16/2025 00:35*	WG2491629
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*04/16/2025 00:35*	WG2491629
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/16/2025 00:35*	WG2491629

Sample Narrative:

L1848058-01 WG2491629: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	61200		473	1180	294	04/16/2025 00:39	WG2491580
C28-C36 Motor Oil Range	25000		80.6	1180	294	04/16/2025 00:39	WG2491580
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*04/16/2025 00:39*	WG2491580

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.771	4.76	143	04/16/2025 00:15	WG2491579
Acenaphthylene	U		0.671	4.76	143	04/16/2025 00:15	WG2491579
Anthracene	U		0.848	4.76	143	04/16/2025 00:15	WG2491579
Benzidine	U	C7	8.95	239	143	04/16/2025 00:15	WG2491579
Benzo(a)anthracene	U		0.839	4.76	143	04/16/2025 00:15	WG2491579
Benzo(b)fluoranthene	U		0.888	4.76	143	04/16/2025 00:15	WG2491579
Benzo(k)fluoranthene	U		0.847	4.76	143	04/16/2025 00:15	WG2491579
Benzo(g,h,i)perylene	U		0.871	4.76	143	04/16/2025 00:15	WG2491579
Benzo(a)pyrene	U		0.885	4.76	143	04/16/2025 00:15	WG2491579
Bis(2-chlorethoxy)methane	U		1.43	47.6	143	04/16/2025 00:15	WG2491579
Bis(2-chloroethyl)ether	U		1.57	47.6	143	04/16/2025 00:15	WG2491579
2,2-Oxybis(1-Chloropropane)	U		2.06	47.6	143	04/16/2025 00:15	WG2491579
4-Bromophenyl-phenylether	U		1.67	47.6	143	04/16/2025 00:15	WG2491579
2-Chloronaphthalene	U		0.837	4.76	143	04/16/2025 00:15	WG2491579

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
4-Chlorophenyl-phenylether	U		1.66	47.6	143	04/16/2025 00:15	WG2491579
Chrysene	U		0.947	4.76	143	04/16/2025 00:15	WG2491579
Dibenz(a,h)anthracene	U		1.32	4.76	143	04/16/2025 00:15	WG2491579
1,2-Dichlorobenzene	U		1.41	47.6	143	04/16/2025 00:15	WG2491579
1,3-Dichlorobenzene	U		1.44	47.6	143	04/16/2025 00:15	WG2491579
1,4-Dichlorobenzene	U		1.42	47.6	143	04/16/2025 00:15	WG2491579
3,3-Dichlorobenzidine	U		1.76	47.6	143	04/16/2025 00:15	WG2491579
2,4-Dinitrotoluene	U		1.37	47.6	143	04/16/2025 00:15	WG2491579
2,6-Dinitrotoluene	U		1.56	47.6	143	04/16/2025 00:15	WG2491579
Fluoranthene	U		0.859	4.76	143	04/16/2025 00:15	WG2491579
Fluorene	31.0		0.775	4.76	143	04/16/2025 00:15	WG2491579
Hexachlorobenzene	U		1.69	47.6	143	04/16/2025 00:15	WG2491579
Hexachloro-1,3-butadiene	U		1.60	47.6	143	04/16/2025 00:15	WG2491579
Hexachlorocyclopentadiene	U	C3	2.50	47.6	143	04/16/2025 00:15	WG2491579
Hexachloroethane	U		1.87	47.6	143	04/16/2025 00:15	WG2491579
Indeno(1,2,3-cd)pyrene	U		1.35	4.76	143	04/16/2025 00:15	WG2491579
Isophorone	U		1.46	47.6	143	04/16/2025 00:15	WG2491579
Naphthalene	68.9		1.20	4.76	143	04/16/2025 00:15	WG2491579
Nitrobenzene	U		1.66	47.6	143	04/16/2025 00:15	WG2491579
n-Nitrosodimethylamine	U		7.06	47.6	143	04/16/2025 00:15	WG2491579
n-Nitrosodiphenylamine	U		3.60	47.6	143	04/16/2025 00:15	WG2491579
n-Nitrosodi-n-propylamine	U		1.59	47.6	143	04/16/2025 00:15	WG2491579
Phenanthrene	35.7		0.945	4.76	143	04/16/2025 00:15	WG2491579
Benzylbutyl phthalate	U		1.49	47.6	143	04/16/2025 00:15	WG2491579
Bis(2-ethylhexyl)phthalate	U		6.03	47.6	143	04/16/2025 00:15	WG2491579
Di-n-butyl phthalate	U		1.63	47.6	143	04/16/2025 00:15	WG2491579
Diethyl phthalate	U		1.57	47.6	143	04/16/2025 00:15	WG2491579
Dimethyl phthalate	U		10.1	47.6	143	04/16/2025 00:15	WG2491579
Di-n-octyl phthalate	U		3.22	47.6	143	04/16/2025 00:15	WG2491579
Pyrene	U		0.927	4.76	143	04/16/2025 00:15	WG2491579
1,2,4-Trichlorobenzene	U		1.49	47.6	143	04/16/2025 00:15	WG2491579
4-Chloro-3-methylphenol	U		1.54	47.6	143	04/16/2025 00:15	WG2491579
2-Chlorophenol	U		1.57	47.6	143	04/16/2025 00:15	WG2491579
2,4-Dichlorophenol	U		1.39	47.6	143	04/16/2025 00:15	WG2491579
2,4-Dimethylphenol	U		1.24	47.6	143	04/16/2025 00:15	WG2491579
4,6-Dinitro-2-methylphenol	U		10.8	47.6	143	04/16/2025 00:15	WG2491579
2,4-Dinitrophenol	U		11.1	47.6	143	04/16/2025 00:15	WG2491579
2-Nitrophenol	U		1.70	47.6	143	04/16/2025 00:15	WG2491579
4-Nitrophenol	U		1.49	47.6	143	04/16/2025 00:15	WG2491579
Pentachlorophenol	U		1.28	47.6	143	04/16/2025 00:15	WG2491579
Phenol	U		1.92	47.6	143	04/16/2025 00:15	WG2491579
2,4,6-Trichlorophenol	U		1.53	47.6	143	04/16/2025 00:15	WG2491579
(S) 2-Fluorophenol	*46.8*			*12.0-120*		*04/16/2025 00:15*	WG2491579
(S) Phenol-d5	*68.3*			*10.0-120*		*04/16/2025 00:15*	WG2491579
(S) Nitrobenzene-d5	*0.000*	J2		*10.0-122*		*04/16/2025 00:15*	WG2491579
(S) 2-Fluorobiphenyl	*53.2*			*15.0-120*		*04/16/2025 00:15*	WG2491579
(S) 2,4,6-Tribromophenol	*46.1*			*10.0-127*		*04/16/2025 00:15*	WG2491579
(S) p-Terphenyl-d14	*59.5*			*10.0-120*		*04/16/2025 00:15*	WG2491579

Sample Narrative:

L1848058-01 WG2491579: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	U		0.606	10.0	1	04/16/2025 09:21	WG2491612

Wet Chemistry by Method 365.4M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	U		16.0	20.0	1	04/16/2025 10:30	WG2491829

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	U		15.2	20.0	1	04/16/2025 09:21	WG2491612

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromide	U		4.10	10.0	1	04/16/2025 02:35	WG2491528
Chloride	186		6.35	20.0	1	04/16/2025 02:35	WG2491528
Fluoride	U		0.706	2.00	1	04/16/2025 02:35	WG2491528
Nitrate as (N)	U		0.952	10.0	1	04/16/2025 02:35	WG2491528
Nitrite as (N)	U		0.606	10.0	1	04/16/2025 02:35	WG2491528
Sulfate	U		8.24	50.0	1	04/16/2025 02:35	WG2491528

Mercury by Method 7471B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	U		0.0206	0.0400	1	04/16/2025 09:48	WG2491795

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aluminum	15.5	J	6.08	20.0	1	04/16/2025 10:42	WG2491623
Antimony	U		0.691	2.00	1	04/16/2025 10:42	WG2491623
Arsenic	U		0.837	2.00	1	04/16/2025 10:42	WG2491623
Barium	2.27		0.0850	0.500	1	04/16/2025 10:42	WG2491623
Beryllium	U		0.0477	0.200	1	04/16/2025 10:42	WG2491623
Cadmium	U		0.0653	0.500	1	04/16/2025 10:42	WG2491623
Calcium	30.2	J	19.0	100	1	04/16/2025 10:42	WG2491623
Chromium	U		0.214	1.00	1	04/16/2025 10:42	WG2491623
Cobalt	U		0.177	1.00	1	04/16/2025 10:42	WG2491623
Copper	U		0.357	2.00	1	04/16/2025 10:42	WG2491623
Iron	26.1		2.24	10.0	1	04/16/2025 10:42	WG2491623
Lead	U		0.326	0.500	1	04/16/2025 10:42	WG2491623
Magnesium	U		19.9	100	1	04/16/2025 10:42	WG2491623
Manganese	0.299	J	0.173	1.00	1	04/16/2025 10:42	WG2491623
Nickel	U		0.200	2.00	1	04/16/2025 10:42	WG2491623
Potassium	U		20.9	100	1	04/16/2025 10:42	WG2491623
Selenium	U		1.07	2.00	1	04/16/2025 10:42	WG2491623
Silver	U		0.127	1.00	1	04/16/2025 10:42	WG2491623
Sodium	130		41.2	100	1	04/16/2025 10:42	WG2491623
Thallium	U		0.518	2.00	1	04/16/2025 10:42	WG2491623
Vanadium	U		0.383	2.00	1	04/16/2025 10:42	WG2491623
Zinc	2.33	J	0.974	5.00	1	04/16/2025 10:42	WG2491623

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	105		5.43	25.0	250	04/15/2025 21:46	WG2491594
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*04/15/2025 21:46*	WG2491594

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3 J4	0.730	1.00	20	04/16/2025 00:53	WG2491629
Acrylonitrile	U	C3	0.0722	0.250	20	04/16/2025 00:53	WG2491629
Benzene	0.495		0.00934	0.0200	20	04/16/2025 00:53	WG2491629
Bromobenzene	U		0.0180	0.250	20	04/16/2025 00:53	WG2491629
Bromodichloromethane	U		0.0145	0.0500	20	04/16/2025 00:53	WG2491629
Bromoform	U		0.0234	0.500	20	04/16/2025 00:53	WG2491629
Bromomethane	U		0.0394	0.250	20	04/16/2025 00:53	WG2491629
n-Butylbenzene	0.197	J	0.105	0.250	20	04/16/2025 00:53	WG2491629
sec-Butylbenzene	0.244	J	0.0576	0.250	20	04/16/2025 00:53	WG2491629
tert-Butylbenzene	U		0.0390	0.100	20	04/16/2025 00:53	WG2491629
Carbon tetrachloride	U		0.0180	0.100	20	04/16/2025 00:53	WG2491629
Chlorobenzene	U		0.00420	0.0500	20	04/16/2025 00:53	WG2491629
Chlorodibromomethane	U		0.0122	0.0500	20	04/16/2025 00:53	WG2491629
Chloroethane	U		0.0340	0.100	20	04/16/2025 00:53	WG2491629
Chloroform	0.0416	J	0.0206	0.0500	20	04/16/2025 00:53	WG2491629
Chloromethane	U	C3	0.0870	0.250	20	04/16/2025 00:53	WG2491629
2-Chlorotoluene	U		0.0173	0.0500	20	04/16/2025 00:53	WG2491629
4-Chlorotoluene	U		0.00900	0.100	20	04/16/2025 00:53	WG2491629
1,2-Dibromo-3-Chloropropane	U		0.0780	0.500	20	04/16/2025 00:53	WG2491629
1,2-Dibromoethane	U		0.0130	0.0500	20	04/16/2025 00:53	WG2491629
Dibromomethane	U		0.0150	0.100	20	04/16/2025 00:53	WG2491629
1,2-Dichlorobenzene	U		0.00850	0.100	20	04/16/2025 00:53	WG2491629
1,3-Dichlorobenzene	U		0.0120	0.100	20	04/16/2025 00:53	WG2491629
1,4-Dichlorobenzene	U		0.0140	0.100	20	04/16/2025 00:53	WG2491629
Dichlorodifluoromethane	U		0.0322	0.100	20	04/16/2025 00:53	WG2491629
1,1-Dichloroethane	U		0.00982	0.0500	20	04/16/2025 00:53	WG2491629
1,2-Dichloroethane	U		0.0130	0.0500	20	04/16/2025 00:53	WG2491629
1,1-Dichloroethene	U		0.0121	0.0500	20	04/16/2025 00:53	WG2491629
cis-1,2-Dichloroethene	U		0.0147	0.0500	20	04/16/2025 00:53	WG2491629
trans-1,2-Dichloroethene	U		0.0208	0.100	20	04/16/2025 00:53	WG2491629
1,2-Dichloropropane	U		0.0284	0.100	20	04/16/2025 00:53	WG2491629
1,1-Dichloropropene	U		0.0162	0.0500	20	04/16/2025 00:53	WG2491629
1,3-Dichloropropane	U		0.0100	0.100	20	04/16/2025 00:53	WG2491629
cis-1,3-Dichloropropene	U		0.0151	0.0500	20	04/16/2025 00:53	WG2491629
trans-1,3-Dichloropropene	U		0.0228	0.100	20	04/16/2025 00:53	WG2491629
2,2-Dichloropropane	U		0.0276	0.0500	20	04/16/2025 00:53	WG2491629
Di-isopropyl ether	U	C3 J4	0.00820	0.0200	20	04/16/2025 00:53	WG2491629
Ethylbenzene	1.21		0.0147	0.0500	20	04/16/2025 00:53	WG2491629
Hexachloro-1,3-butadiene	U	C3	0.120	0.500	20	04/16/2025 00:53	WG2491629
Isopropylbenzene	0.276		0.00850	0.0500	20	04/16/2025 00:53	WG2491629
p-Isopropyltoluene	0.533		0.0510	0.100	20	04/16/2025 00:53	WG2491629
2-Butanone (MEK)	U		1.27	2.00	20	04/16/2025 00:53	WG2491629
Methylene Chloride	U		0.133	0.500	20	04/16/2025 00:53	WG2491629
4-Methyl-2-pentanone (MIBK)	U	C3	0.0456	0.500	20	04/16/2025 00:53	WG2491629
Methyl tert-butyl ether	U		0.00700	0.0200	20	04/16/2025 00:53	WG2491629
Naphthalene	2.36		0.0976	0.250	20	04/16/2025 00:53	WG2491629
n-Propylbenzene	0.769		0.0190	0.100	20	04/16/2025 00:53	WG2491629
Styrene	U		0.00458	0.250	20	04/16/2025 00:53	WG2491629
1,1,1,2-Tetrachloroethane	U		0.0190	0.0500	20	04/16/2025 00:53	WG2491629
1,1,2,2-Tetrachloroethane	U		0.0139	0.0500	20	04/16/2025 00:53	WG2491629

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0151	0.0500	20	04/16/2025 00:53	WG2491629
Tetrachloroethene	U		0.0179	0.0500	20	04/16/2025 00:53	WG2491629
Toluene	5.19	B	0.0260	0.100	20	04/16/2025 00:53	WG2491629
1,2,3-Trichlorobenzene	U		0.147	0.250	20	04/16/2025 00:53	WG2491629
1,2,4-Trichlorobenzene	U		0.0880	0.250	20	04/16/2025 00:53	WG2491629
1,1,1-Trichloroethane	U		0.0185	0.0500	20	04/16/2025 00:53	WG2491629
1,1,2-Trichloroethane	0.0198	J	0.0119	0.0500	20	04/16/2025 00:53	WG2491629
Trichloroethene	U		0.0117	0.0200	20	04/16/2025 00:53	WG2491629
Trichlorofluoromethane	U	J3 J4	0.0165	0.0500	20	04/16/2025 00:53	WG2491629
1,2,3-Trichloropropane	U		0.0324	0.250	20	04/16/2025 00:53	WG2491629
1,2,4-Trimethylbenzene	5.84		0.0316	0.100	20	04/16/2025 00:53	WG2491629
1,2,3-Trimethylbenzene	1.83		0.0316	0.100	20	04/16/2025 00:53	WG2491629
1,3,5-Trimethylbenzene	1.55		0.0400	0.100	20	04/16/2025 00:53	WG2491629
Vinyl chloride	U		0.0232	0.0500	20	04/16/2025 00:53	WG2491629
Xylenes, Total	11.7		0.0176	0.130	20	04/16/2025 00:53	WG2491629
(S) Toluene-d8	*101*			*75.0-131*		*04/16/2025 00:53*	WG2491629
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*04/16/2025 00:53*	WG2491629
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/16/2025 00:53*	WG2491629

Sample Narrative:

L1848058-02 WG2491629: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	148000	V	902	2240	560	04/16/2025 00:52	WG2491580
C28-C36 Motor Oil Range	60900		153	2240	560	04/16/2025 00:52	WG2491580
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*04/16/2025 00:52*	WG2491580

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U	J6	0.792	4.90	147	04/16/2025 00:36	WG2491579
Acenaphthylene	U		0.689	4.90	147	04/16/2025 00:36	WG2491579
Anthracene	U		0.872	4.90	147	04/16/2025 00:36	WG2491579
Benzidine	U	C7 J6	9.20	245	147	04/16/2025 00:36	WG2491579
Benzo(a)anthracene	U		0.863	4.90	147	04/16/2025 00:36	WG2491579
Benzo(b)fluoranthene	U		0.913	4.90	147	04/16/2025 00:36	WG2491579
Benzo(k)fluoranthene	U		0.870	4.90	147	04/16/2025 00:36	WG2491579
Benzo(g,h,i)perylene	U		0.895	4.90	147	04/16/2025 00:36	WG2491579
Benzo(a)pyrene	U		0.910	4.90	147	04/16/2025 00:36	WG2491579
Bis(2-chlorethoxy)methane	U	J6	1.47	49.0	147	04/16/2025 00:36	WG2491579
Bis(2-chloroethyl)ether	U	J6	1.62	49.0	147	04/16/2025 00:36	WG2491579
2,2-Oxybis(1-Chloropropane)	U	J6	2.12	49.0	147	04/16/2025 00:36	WG2491579
4-Bromophenyl-phenylether	U	J6	1.72	49.0	147	04/16/2025 00:36	WG2491579
2-Chloronaphthalene	U	J6	0.860	4.90	147	04/16/2025 00:36	WG2491579
4-Chlorophenyl-phenylether	U	J6	1.71	49.0	147	04/16/2025 00:36	WG2491579
Chrysene	U	J3 J5	0.973	4.90	147	04/16/2025 00:36	WG2491579
Dibenz(a,h)anthracene	U		1.36	4.90	147	04/16/2025 00:36	WG2491579
1,2-Dichlorobenzene	U		1.45	49.0	147	04/16/2025 00:36	WG2491579
1,3-Dichlorobenzene	U		1.48	49.0	147	04/16/2025 00:36	WG2491579
1,4-Dichlorobenzene	U		1.46	49.0	147	04/16/2025 00:36	WG2491579
3,3-Dichlorobenzidine	U		1.81	49.0	147	04/16/2025 00:36	WG2491579
2,4-Dinitrotoluene	U	J6	1.40	49.0	147	04/16/2025 00:36	WG2491579
2,6-Dinitrotoluene	U	J6	1.60	49.0	147	04/16/2025 00:36	WG2491579

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Fluoranthene	U		0.883	4.90	147	04/16/2025 00:36	WG2491579
Fluorene	13.9	J5	0.797	4.90	147	04/16/2025 00:36	WG2491579
Hexachlorobenzene	U		1.73	49.0	147	04/16/2025 00:36	WG2491579
Hexachloro-1,3-butadiene	U		1.65	49.0	147	04/16/2025 00:36	WG2491579
Hexachlorocyclopentadiene	U	C3	2.57	49.0	147	04/16/2025 00:36	WG2491579
Hexachloroethane	U	J6	1.93	49.0	147	04/16/2025 00:36	WG2491579
Indeno(1,2,3-cd)pyrene	U		1.38	4.90	147	04/16/2025 00:36	WG2491579
Isophorone	U	J6	1.50	49.0	147	04/16/2025 00:36	WG2491579
Naphthalene	32.4	J5	1.23	4.90	147	04/16/2025 00:36	WG2491579
Nitrobenzene	U	J6	1.71	49.0	147	04/16/2025 00:36	WG2491579
n-Nitrosodimethylamine	U	J6	7.26	49.0	147	04/16/2025 00:36	WG2491579
n-Nitrosodiphenylamine	U	J6	3.70	49.0	147	04/16/2025 00:36	WG2491579
n-Nitrosodi-n-propylamine	U	J6	1.63	49.0	147	04/16/2025 00:36	WG2491579
Phenanthrene	18.7	J5	0.972	4.90	147	04/16/2025 00:36	WG2491579
Benzylbutyl phthalate	U		1.53	49.0	147	04/16/2025 00:36	WG2491579
Bis(2-ethylhexyl)phthalate	U		6.20	49.0	147	04/16/2025 00:36	WG2491579
Di-n-butyl phthalate	U		1.68	49.0	147	04/16/2025 00:36	WG2491579
Diethyl phthalate	U	J6	1.62	49.0	147	04/16/2025 00:36	WG2491579
Dimethyl phthalate	U	J6	10.4	49.0	147	04/16/2025 00:36	WG2491579
Di-n-octyl phthalate	U	J5	3.31	49.0	147	04/16/2025 00:36	WG2491579
Pyrene	U		0.953	4.90	147	04/16/2025 00:36	WG2491579
1,2,4-Trichlorobenzene	U	J6	1.53	49.0	147	04/16/2025 00:36	WG2491579
4-Chloro-3-methylphenol	U	J6	1.59	49.0	147	04/16/2025 00:36	WG2491579
2-Chlorophenol	U		1.62	49.0	147	04/16/2025 00:36	WG2491579
2,4-Dichlorophenol	U	J6	1.43	49.0	147	04/16/2025 00:36	WG2491579
2,4-Dimethylphenol	U	J6	1.28	49.0	147	04/16/2025 00:36	WG2491579
4,6-Dinitro-2-methylphenol	U	J6	11.1	49.0	147	04/16/2025 00:36	WG2491579
2,4-Dinitrophenol	U	J6	11.5	49.0	147	04/16/2025 00:36	WG2491579
2-Nitrophenol	U	J6	1.75	49.0	147	04/16/2025 00:36	WG2491579
4-Nitrophenol	U	J6	1.53	49.0	147	04/16/2025 00:36	WG2491579
Pentachlorophenol	U	J6	1.32	49.0	147	04/16/2025 00:36	WG2491579
Phenol	U	J6	1.97	49.0	147	04/16/2025 00:36	WG2491579
2,4,6-Trichlorophenol	U	J6	1.57	49.0	147	04/16/2025 00:36	WG2491579
(S) 2-Fluorophenol	*52.0*			*12.0-120*		*04/16/2025 00:36*	WG2491579
(S) Phenol-d5	*52.7*			*10.0-120*		*04/16/2025 00:36*	WG2491579
(S) Nitrobenzene-d5	*0.000*	J2		*10.0-122*		*04/16/2025 00:36*	WG2491579
(S) 2-Fluorobiphenyl	*51.0*			*15.0-120*		*04/16/2025 00:36*	WG2491579
(S) 2,4,6-Tribromophenol	*50.7*			*10.0-127*		*04/16/2025 00:36*	WG2491579
(S) p-Terphenyl-d14	*52.9*			*10.0-120*		*04/16/2025 00:36*	WG2491579

Sample Narrative:

L1848058-02 WG2491579: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

Method Blank (MB)

(MB) R4200297-1 04/16/25 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Phosphorus,Total	U		16.0	20.0

L1848058-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1848058-02 04/16/25 10:30 • (DUP) R4200297-4 04/16/25 10:31

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	U	U	1	0.000		25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4200297-2 04/16/25 10:26 • (LCSD) R4200297-3 04/16/25 10:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	135	131	129	97.0	95.5	85.0-115			1.54	25

QUALITY CONTROL SUMMARY

L1848058-01,02

Method Blank (MB)

(MB) R4200214-1 04/16/25 09:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Kjeldahl Nitrogen, TKN	U		15.2	20.0

L1848058-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1848058-02 04/16/25 09:21 • (DUP) R4200214-4 04/16/25 09:22

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4200214-2 04/16/25 09:17 • (LCSD) R4200214-3 04/16/25 09:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	480	436	428	90.8	89.2	80.0-120			1.85	20

Method Blank (MB)

(MB) R4200705-1 04/16/25 15:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.379	1.00

L1841538-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1841538-03 04/16/25 17:00 • (DUP) R4200705-7 04/16/25 17:09

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.444	0.475	1	6.78	J	20

L1847428-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1847428-02 04/16/25 18:12 • (DUP) R4200705-8 04/16/25 18:21

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4200705-2 04/16/25 15:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.14	91.4	80.0-120	

L1841538-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1841538-02 04/16/25 16:16 • (MS) R4200705-3 04/16/25 16:24 • (MSD) R4200705-4 04/16/25 16:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	U	20.7	19.7	104	98.6	1	75.0-125			4.90	20

L1841538-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1841538-02 04/16/25 16:16 • (MS) R4200705-5 04/16/25 16:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	643	U	710	110	50	75.0-125	

Method Blank (MB)

(MB) R4200184-1 04/16/25 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Bromide	U		4.10	10.0
Chloride	U		6.35	20.0
Fluoride	U		0.706	2.00
Nitrate as (N)	U		0.952	10.0
Nitrite as (N)	U		0.606	10.0
Sulfate	U		8.24	50.0

L1847700-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847700-01 04/16/25 06:01 • (DUP) R4200184-3 04/16/25 06:17

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	7.61	U	1	200	P1	15
Fluoride	U	U	1	0.000		15
Nitrate as (N)	4.55	4.28	1	6.14	J	15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	27.1	27.0	1	0.589	J	15

Laboratory Control Sample (LCS)

(LCS) R4200184-2 04/16/25 01:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	200	198	98.8	80.0-120	
Chloride	200	199	99.7	80.0-120	
Fluoride	20.0	18.3	91.3	80.0-120	
Nitrate as (N)	20.0	19.6	97.9	80.0-120	
Nitrite as (N)	20.0	20.6	103	80.0-120	
Sulfate	200	200	99.8	80.0-120	

L1847700-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847700-01 04/16/25 06:01 • (MS) R4200184-4 04/16/25 06:34 • (MSD) R4200184-5 04/16/25 06:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	200	U	196	195	98.0	97.7	1	80.0-120			0.274	15
Chloride	200	7.61	202	201	97.3	96.7	1	80.0-120			0.621	15

L1847700-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847700-01 04/16/25 06:01 • (MS) R4200184-4 04/16/25 06:34 • (MSD) R4200184-5 04/16/25 06:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	20.0	U	19.5	19.5	97.4	97.3	1	80.0-120			0.0721	15
Nitrate as (N)	20.0	4.55	23.9	23.9	96.8	97.0	1	80.0-120			0.129	15
Nitrite as (N)	20.0	U	20.3	20.2	101	101	1	80.0-120			0.505	15
Sulfate	200	27.1	226	223	99.2	98.2	1	80.0-120			0.955	15

QUALITY CONTROL SUMMARY

L1848058-01,02

Method Blank (MB)

(MB) R4200278-1 04/16/25 09:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0206	0.0400

Laboratory Control Sample (LCS)

(LCS) R4200278-2 04/16/25 09:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.497	99.3	80.0-120	

L1847033-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847033-04 04/16/25 09:35 • (MS) R4200278-4 04/16/25 09:40 • (MSD) R4200278-5 04/16/25 09:43

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	U	0.346	0.202	69.2	40.4	1	75.0-125	J6	J3 J6	52.5	20

Method Blank (MB)

(MB) R4200532-1 04/16/25 10:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		6.08	20.0
Antimony	U		0.691	2.00
Arsenic	U		0.837	2.00
Barium	U		0.0850	0.500
Beryllium	U		0.0477	0.200
Cadmium	U		0.0653	0.500
Calcium	U		19.0	100
Chromium	U		0.214	1.00
Cobalt	U		0.177	1.00
Copper	U		0.357	2.00
Iron	U		2.24	10.0
Lead	U		0.326	0.500
Magnesium	U		19.9	100
Manganese	U		0.173	1.00
Nickel	U		0.200	2.00
Potassium	U		20.9	100
Selenium	U		1.07	2.00
Silver	U		0.127	1.00
Sodium	U		41.2	100
Thallium	U		0.518	2.00
Vanadium	U		0.383	2.00
Zinc	U		0.974	5.00

Laboratory Control Sample (LCS)

(LCS) R4200532-2 04/16/25 10:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000	948	94.8	80.0-120	
Antimony	100	91.3	91.3	80.0-120	
Arsenic	100	92.9	92.9	80.0-120	
Barium	100	98.0	98.0	80.0-120	
Beryllium	100	99.1	99.1	80.0-120	
Cadmium	100	92.3	92.3	80.0-120	
Calcium	1000	973	97.3	80.0-120	
Chromium	100	97.3	97.3	80.0-120	
Cobalt	100	92.9	92.9	80.0-120	
Copper	100	97.6	97.6	80.0-120	
Iron	1000	977	97.7	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4200532-2 04/16/25 10:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	94.0	94.0	80.0-120	
Magnesium	1000	939	93.9	80.0-120	
Manganese	100	98.9	98.9	80.0-120	
Nickel	100	93.1	93.1	80.0-120	
Potassium	1000	944	94.4	80.0-120	
Selenium	100	92.0	92.0	80.0-120	
Silver	20.0	17.3	86.4	80.0-120	
Sodium	1000	974	97.4	80.0-120	
Thallium	100	97.8	97.8	80.0-120	
Vanadium	100	95.4	95.4	80.0-120	
Zinc	100	93.7	93.7	80.0-120	

L1847700-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847700-01 04/16/25 10:05 • (MS) R4200532-5 04/16/25 10:10 • (MSD) R4200532-6 04/16/25 10:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	1970	3380	3630	141	167	1	75.0-125	J5	J5	7.20	20
Antimony	100	U	97.7	93.1	97.7	93.1	1	75.0-125			4.80	20
Arsenic	100	2.27	103	97.7	101	95.4	1	75.0-125			5.14	20
Barium	100	18.3	124	127	106	108	1	75.0-125			2.19	20
Beryllium	100	0.195	105	102	104	102	1	75.0-125			2.62	20
Cadmium	100	0.0943	99.0	95.2	98.9	95.1	1	75.0-125			3.93	20
Calcium	1000	5410	3900	4290	0.000	0.000	1	75.0-125	V	V	9.59	20
Chromium	100	2.35	107	104	105	101	1	75.0-125			3.21	20
Cobalt	100	1.48	102	98.7	100	97.2	1	75.0-125			3.05	20
Copper	100	1.48	107	105	105	103	1	75.0-125			1.84	20
Iron	1000	4740	6340	12700	160	794	1	75.0-125	V	J3 V	66.7	20
Lead	100	4.66	104	102	99.6	97.3	1	75.0-125			2.18	20
Magnesium	1000	684	1650	1830	97.0	115	1	75.0-125			10.3	20
Manganese	100	99.7	184	490	83.9	390	1	75.0-125		J3 J5	91.0	20
Nickel	100	1.55	102	99.6	101	98.0	1	75.0-125			2.85	20
Potassium	1000	426	1490	1500	107	108	1	75.0-125			0.759	20
Selenium	100	U	99.2	96.2	99.2	96.2	1	75.0-125			3.15	20
Silver	20.0	U	18.5	17.9	92.3	89.6	1	75.0-125			3.01	20
Sodium	1000	60.3	1090	1060	103	100	1	75.0-125			2.81	20
Thallium	100	U	105	101	105	101	1	75.0-125			4.02	20
Vanadium	100	7.63	108	108	101	100	1	75.0-125			0.409	20
Zinc	100	12.9	112	106	98.8	93.4	1	75.0-125			4.87	20

Method Blank (MB)

(MB) R4200090-2 04/15/25 20:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R4200090-1 04/15/25 19:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.34	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R4200154-3 04/15/25 22:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	0.000850	J	0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4200154-3 04/15/25 22:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	0.00300	J	0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4200154-1 04/15/25 21:06 • (LCSD) R4200154-2 04/15/25 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.276	0.296	44.2	47.4	10.0-160			6.99	31
Acrylonitrile	0.625	0.349	0.332	55.8	53.1	45.0-153			4.99	22
Benzene	0.125	0.123	0.123	98.4	98.4	70.0-123			0.000	20
Bromobenzene	0.125	0.133	0.142	106	114	73.0-121			6.55	20
Bromodichloromethane	0.125	0.145	0.146	116	117	73.0-121			0.687	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4200154-1 04/15/25 21:06 • (LCSD) R4200154-2 04/15/25 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.119	0.129	95.2	103	64.0-132			8.06	20
Bromomethane	0.125	0.161	0.168	129	134	56.0-147			4.26	20
n-Butylbenzene	0.125	0.110	0.124	88.0	99.2	68.0-135			12.0	20
sec-Butylbenzene	0.125	0.117	0.121	93.6	96.8	74.0-130			3.36	20
tert-Butylbenzene	0.125	0.130	0.123	104	98.4	75.0-127			5.53	20
Carbon tetrachloride	0.125	0.149	0.158	119	126	66.0-128			5.86	20
Chlorobenzene	0.125	0.119	0.125	95.2	100	76.0-128			4.92	20
Chlorodibromomethane	0.125	0.131	0.145	105	116	74.0-127			10.1	20
Chloroethane	0.125	0.120	0.130	96.0	104	61.0-134			8.00	20
Chloroform	0.125	0.124	0.130	99.2	104	72.0-123			4.72	20
Chloromethane	0.125	0.0750	0.0708	60.0	56.6	51.0-138			5.76	20
2-Chlorotoluene	0.125	0.122	0.129	97.6	103	75.0-124			5.58	20
4-Chlorotoluene	0.125	0.124	0.137	99.2	110	75.0-124			9.96	20
1,2-Dibromo-3-Chloropropane	0.125	0.129	0.141	103	113	59.0-130			8.89	20
1,2-Dibromoethane	0.125	0.135	0.139	108	111	74.0-128			2.92	20
Dibromomethane	0.125	0.144	0.147	115	118	75.0-122			2.06	20
1,2-Dichlorobenzene	0.125	0.118	0.130	94.4	104	76.0-124			9.68	20
1,3-Dichlorobenzene	0.125	0.116	0.128	92.8	102	76.0-125			9.84	20
1,4-Dichlorobenzene	0.125	0.111	0.119	88.8	95.2	77.0-121			6.96	20
Dichlorodifluoromethane	0.125	0.156	0.171	125	137	43.0-156			9.17	20
1,1-Dichloroethane	0.125	0.104	0.109	83.2	87.2	70.0-127			4.69	20
1,2-Dichloroethane	0.125	0.129	0.139	103	111	65.0-131			7.46	20
1,1-Dichloroethene	0.125	0.103	0.118	82.4	94.4	65.0-131			13.6	20
cis-1,2-Dichloroethene	0.125	0.120	0.120	96.0	96.0	73.0-125			0.000	20
trans-1,2-Dichloroethene	0.125	0.114	0.126	91.2	101	71.0-125			10.0	20
1,2-Dichloropropane	0.125	0.103	0.102	82.4	81.6	74.0-125			0.976	20
1,1-Dichloropropene	0.125	0.135	0.144	108	115	73.0-125			6.45	20
1,3-Dichloropropane	0.125	0.126	0.137	101	110	80.0-125			8.37	20
cis-1,3-Dichloropropene	0.125	0.138	0.135	110	108	76.0-127			2.20	20
trans-1,3-Dichloropropene	0.125	0.136	0.147	109	118	73.0-127			7.77	20
2,2-Dichloropropane	0.125	0.121	0.122	96.8	97.6	59.0-135			0.823	20
Di-isopropyl ether	0.125	0.0587	0.0625	47.0	50.0	60.0-136	J4	J4	6.27	20
Ethylbenzene	0.125	0.115	0.118	92.0	94.4	74.0-126			2.58	20
Hexachloro-1,3-butadiene	0.125	0.0933	0.113	74.6	90.4	57.0-150			19.1	20
Isopropylbenzene	0.125	0.120	0.128	96.0	102	72.0-127			6.45	20
p-Isopropyltoluene	0.125	0.114	0.125	91.2	100	72.0-133			9.21	20
2-Butanone (MEK)	0.625	0.677	0.616	108	98.6	30.0-160			9.44	24
Methylene Chloride	0.125	0.116	0.117	92.8	93.6	68.0-123			0.858	20
4-Methyl-2-pentanone (MIBK)	0.625	0.359	0.367	57.4	58.7	56.0-143			2.20	20
Methyl tert-butyl ether	0.125	0.127	0.136	102	109	66.0-132			6.84	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4200154-1 04/15/25 21:06 • (LCSD) R4200154-2 04/15/25 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.110	0.128	88.0	102	59.0-130			15.1	20
n-Propylbenzene	0.125	0.127	0.130	102	104	74.0-126			2.33	20
Styrene	0.125	0.106	0.109	84.8	87.2	72.0-127			2.79	20
1,1,1,2-Tetrachloroethane	0.125	0.132	0.134	106	107	74.0-129			1.50	20
1,1,2,2-Tetrachloroethane	0.125	0.108	0.114	86.4	91.2	68.0-128			5.41	20
1,1,2-Trichlorotrifluoroethane	0.125	0.132	0.135	106	108	61.0-139			2.25	20
Tetrachloroethene	0.125	0.143	0.145	114	116	70.0-136			1.39	20
Toluene	0.125	0.130	0.134	104	107	75.0-121			3.03	20
1,2,3-Trichlorobenzene	0.125	0.120	0.144	96.0	115	59.0-139			18.2	20
1,2,4-Trichlorobenzene	0.125	0.103	0.113	82.4	90.4	62.0-137			9.26	20
1,1,1-Trichloroethane	0.125	0.146	0.151	117	121	69.0-126			3.37	20
1,1,2-Trichloroethane	0.125	0.128	0.136	102	109	78.0-123			6.06	20
Trichloroethene	0.125	0.140	0.152	112	122	76.0-126			8.22	20
Trichlorofluoromethane	0.125	0.142	0.149	114	119	61.0-142			4.81	20
1,2,3-Trichloropropane	0.125	0.132	0.138	106	110	67.0-129			4.44	20
1,2,4-Trimethylbenzene	0.125	0.118	0.126	94.4	101	70.0-126			6.56	20
1,2,3-Trimethylbenzene	0.125	0.116	0.126	92.8	101	74.0-124			8.26	20
1,3,5-Trimethylbenzene	0.125	0.122	0.126	97.6	101	73.0-127			3.23	20
Vinyl chloride	0.125	0.115	0.116	92.0	92.8	63.0-134			0.866	20
Xylenes, Total	0.375	0.339	0.348	90.4	92.8	72.0-127			2.62	20
(S) Toluene-d8				*103*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*93.6*	*95.1*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*108*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R4200159-1 04/16/25 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.02	J	1.61	4.00
C28-C36 Motor Oil Range	0.401	J	0.274	4.00
(S) o-Terphenyl	*80.5*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4200159-2 04/16/25 00:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.6	83.2	50.0-150	
(S) o-Terphenyl			*95.0*	*18.0-148*	

L1848058-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848058-02 04/16/25 00:52 • (MS) R4200159-3 04/16/25 01:05 • (MSD) R4200159-4 04/16/25 01:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	750	148000	328000	331000	24000	26800	600	50.0-150	E V	E V	0.910	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

Method Blank (MB)

(MB) R4200143-2 04/15/25 23:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
1,2-Dichlorobenzene	U		0.00987	0.333
1,3-Dichlorobenzene	U		0.0101	0.333
1,4-Dichlorobenzene	U		0.00991	0.333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333

Method Blank (MB)

(MB) R4200143-2 04/15/25 23:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*59.5*			*12.0-120*
(S) Phenol-d5	*51.2*			*10.0-120*
(S) Nitrobenzene-d5	*42.6*			*10.0-122*
(S) 2-Fluorobiphenyl	*50.8*			*15.0-120*
(S) 2,4,6-Tribromophenol	*53.3*			*10.0-127*
(S) p-Terphenyl-d14	*56.2*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4200143-1 04/15/25 23:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.400	60.1	38.0-120	
Acenaphthylene	0.666	0.415	62.3	40.0-120	
Anthracene	0.666	0.416	62.5	42.0-120	
Benzidine	1.33	0.334	25.1	10.0-120	J
Benzo(a)anthracene	0.666	0.438	65.8	44.0-120	
Benzo(b)fluoranthene	0.666	0.436	65.5	43.0-120	
Benzo(k)fluoranthene	0.666	0.435	65.3	44.0-120	
Benzo(g,h,i)perylene	0.666	0.435	65.3	43.0-120	
Benzo(a)pyrene	0.666	0.465	69.8	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.288	43.2	20.0-120	J
Bis(2-chloroethyl)ether	0.666	0.367	55.1	16.0-120	

Laboratory Control Sample (LCS)

(LCS) R4200143-1 04/15/25 23:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,2-Oxybis(1-Chloropropane)	0.666	0.329	49.4	23.0-120	J
4-Bromophenyl-phenylether	0.666	0.425	63.8	40.0-120	
2-Chloronaphthalene	0.666	0.385	57.8	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.413	62.0	40.0-120	
Chrysene	0.666	0.396	59.5	43.0-120	
Dibenz(a,h)anthracene	0.666	0.453	68.0	44.0-120	
1,2-Dichlorobenzene	0.666	0.355	53.3	32.0-120	
1,3-Dichlorobenzene	0.666	0.351	52.7	30.0-120	
1,4-Dichlorobenzene	0.666	0.371	55.7	31.0-120	
3,3-Dichlorobenzidine	1.33	0.873	65.6	28.0-120	
2,4-Dinitrotoluene	0.666	0.432	64.9	45.0-120	
2,6-Dinitrotoluene	0.666	0.419	62.9	42.0-120	
Fluoranthene	0.666	0.443	66.5	44.0-120	
Fluorene	0.666	0.398	59.8	41.0-120	
Hexachlorobenzene	0.666	0.398	59.8	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.290	43.5	15.0-120	J
Hexachlorocyclopentadiene	0.666	0.193	29.0	15.0-120	J
Hexachloroethane	0.666	0.355	53.3	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.491	73.7	45.0-120	
Isophorone	0.666	0.290	43.5	23.0-120	J
Naphthalene	0.666	0.322	48.3	18.0-120	
Nitrobenzene	0.666	0.286	42.9	17.0-120	J
n-Nitrosodimethylamine	0.666	0.422	63.4	10.0-125	
n-Nitrosodiphenylamine	0.666	0.411	61.7	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.313	47.0	26.0-120	J
Phenanthrene	0.666	0.400	60.1	42.0-120	
Benzylbutyl phthalate	0.666	0.433	65.0	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.384	57.7	41.0-120	
Di-n-butyl phthalate	0.666	0.382	57.4	43.0-120	
Diethyl phthalate	0.666	0.419	62.9	43.0-120	
Dimethyl phthalate	0.666	0.416	62.5	43.0-120	
Di-n-octyl phthalate	0.666	0.435	65.3	40.0-120	
Pyrene	0.666	0.424	63.7	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.329	49.4	17.0-120	J
4-Chloro-3-methylphenol	0.666	0.319	47.9	28.0-120	J
2-Chlorophenol	0.666	0.370	55.6	28.0-120	
2,4-Dichlorophenol	0.666	0.347	52.1	25.0-120	
2,4-Dimethylphenol	0.666	0.282	42.3	15.0-120	J
4,6-Dinitro-2-methylphenol	0.666	0.551	82.7	16.0-120	
2,4-Dinitrophenol	0.666	0.476	71.5	10.0-120	

Laboratory Control Sample (LCS)

(LCS) R4200143-1 04/15/25 23:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Nitrophenol	0.666	0.386	58.0	20.0-120	
4-Nitrophenol	0.666	0.450	67.6	27.0-120	
Pentachlorophenol	0.666	0.347	52.1	29.0-120	
Phenol	0.666	0.352	52.9	28.0-120	
2,4,6-Trichlorophenol	0.666	0.420	63.1	37.0-120	
(S) 2-Fluorophenol			*65.8*	*12.0-120*	
(S) Phenol-d5			*57.4*	*10.0-120*	
(S) Nitrobenzene-d5			*39.3*	*10.0-122*	
(S) 2-Fluorobiphenyl			*57.7*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*70.7*	*10.0-127*	
(S) p-Terphenyl-d14			*60.1*	*10.0-120*	

L1848058-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848058-02 04/16/25 00:36 • (MS) R4200143-3 04/16/25 00:57 • (MSD) R4200143-4 04/16/25 01:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	9.52	U	U	U	0.000	0.000	143	18.0-120	J6	J6	0.000	32
Acenaphthylene	9.52	U	7.99	7.92	83.9	80.8	143	25.0-120			0.880	32
Anthracene	9.52	U	3.71	4.45	39.0	45.4	143	22.0-120	J	J	18.1	29
Benzidine	19.0	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	40
Benzo(a)anthracene	9.52	U	6.48	6.96	68.1	71.0	143	25.0-120			7.14	29
Benzo(b)fluoranthene	9.52	U	5.41	6.16	56.8	62.9	143	19.0-122			13.0	31
Benzo(k)fluoranthene	9.52	U	5.17	5.69	54.3	58.1	143	23.0-120			9.58	30
Benzo(g,h,i)perylene	9.52	U	4.52	4.93	47.5	50.3	143	10.0-120	J		8.68	33
Benzo(a)pyrene	9.52	U	6.25	6.59	65.7	67.2	143	24.0-120			5.30	30
Bis(2-chlorethoxy)methane	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	34
Bis(2-chloroethyl)ether	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	40
2,2-Oxybis(1-Chloropropane)	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	40
4-Bromophenyl-phenylether	9.52	U	U	U	0.000	0.000	143	27.0-120	J6	J6	0.000	30
2-Chloronaphthalene	9.52	U	U	U	0.000	0.000	143	20.0-120	J6	J6	0.000	32
4-Chlorophenyl-phenylether	9.52	U	U	U	0.000	0.000	143	24.0-120	J6	J6	0.000	29
Chrysene	9.52	U	17.0	9.71	179	99.1	143	21.0-120	J5	J3	54.6	29
Dibenz(a,h)anthracene	9.52	U	4.58	5.02	48.1	51.2	143	10.0-120	J		9.17	32
1,2-Dichlorobenzene	9.52	U	4.08	4.78	0.000	48.8	143	10.0-120	J6	J J3	200	38
1,3-Dichlorobenzene	9.52	U	4.30	4.84	45.2	49.4	143	10.0-120	J	J	11.8	40
1,4-Dichlorobenzene	9.52	U	4.43	5.25	46.5	53.6	143	10.0-120	J	J	16.9	39
3,3-Dichlorobenzidine	19.0	U	8.29	9.07	0.000	0.000	143	10.0-120	J6	J6	0.000	34
2,4-Dinitrotoluene	9.52	U	U	U	0.000	0.000	143	30.0-120	J6	J6	0.000	31

L1848058-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848058-02 04/16/25 00:36 • (MS) R4200143-3 04/16/25 00:57 • (MSD) R4200143-4 04/16/25 01:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,6-Dinitrotoluene	9.52	U	U	U	0.000	0.000	143	25.0-120	J6	J6	0.000	31
Fluoranthene	9.52	U	10.3	10.8	108	110	143	18.0-126			4.74	32
Fluorene	9.52	13.9	94.6	82.7	848	702	143	25.0-120	J5	J5	13.4	30
Hexachlorobenzene	9.52	U	4.68	5.26	0.000	0.000	143	27.0-120	J6	J6	0.000	28
Hexachloro-1,3-butadiene	9.52	U	3.63	4.20	0.000	0.000	143	10.0-120	J6	J6	0.000	38
Hexachlorocyclopentadiene	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	40
Hexachloroethane	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	40
Indeno(1,2,3-cd)pyrene	9.52	U	4.95	5.73	52.0	58.5	143	10.0-120			14.6	32
Isophorone	9.52	U	U	U	0.000	0.000	143	13.0-120	J6	J6	0.000	34
Naphthalene	9.52	32.4	155	152	1290	1220	143	10.0-120	J5	J5	1.95	35
Nitrobenzene	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	36
n-Nitrosodimethylamine	9.52	U	U	U	0.000	0.000	143	10.0-127	J6	J6	0.000	40
n-Nitrosodiphenylamine	9.52	U	U	U	0.000	0.000	143	17.0-120	J6	J6	0.000	29
n-Nitrosodi-n-propylamine	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	37
Phenanthrene	9.52	18.7	89.5	89.6	744	723	143	17.0-120	J5	J5	0.112	31
Benzylbutyl phthalate	9.52	U	5.45	6.70	0.000	0.000	143	23.0-120	J6	J6	0.000	30
Bis(2-ethylhexyl)phthalate	9.52	U	7.66	8.41	0.000	0.000	143	17.0-126	J6	J6	0.000	30
Di-n-butyl phthalate	9.52	U	4.56	5.66	0.000	0.000	143	30.0-120	J6	J6	0.000	29
Diethyl phthalate	9.52	U	U	U	0.000	0.000	143	26.0-120	J6	J6	0.000	28
Dimethyl phthalate	9.52	U	U	U	0.000	0.000	143	25.0-120	J6	J6	0.000	29
Di-n-octyl phthalate	9.52	U	14.9	16.3	0.000	0.000	143	21.0-123	J6	J6	0.000	29
Pyrene	9.52	U	8.37	9.39	87.9	95.8	143	16.0-121			11.5	32
1,2,4-Trichlorobenzene	9.52	U	U	U	0.000	0.000	143	12.0-120	J6	J6	0.000	37
4-Chloro-3-methylphenol	9.52	U	U	U	0.000	0.000	143	15.0-120	J6	J6	0.000	30
2-Chlorophenol	9.52	U	4.52	5.13	0.000	52.3	143	15.0-120	J6	J J3	200	37
2,4-Dichlorophenol	9.52	U	U	U	0.000	0.000	143	20.0-120	J6	J6	0.000	31
2,4-Dimethylphenol	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	33
4,6-Dinitro-2-methylphenol	9.52	U	U	U	0.000	0.000	143	10.0-120	J6	J6	0.000	39
2,4-Dinitrophenol	9.52	U	U	U	0.000	0.000	143	10.0-121	J6	J6	0.000	40
2-Nitrophenol	9.52	U	U	U	0.000	0.000	143	12.0-120	J6	J6	0.000	39
4-Nitrophenol	9.52	U	U	U	0.000	0.000	143	10.0-137	J6	J6	0.000	32
Pentachlorophenol	9.52	U	U	U	0.000	0.000	143	10.0-160	J6	J6	0.000	31
Phenol	9.52	U	U	U	0.000	0.000	143	12.0-120	J6	J6	0.000	38
2,4,6-Trichlorophenol	9.52	U	U	U	0.000	0.000	143	19.0-120	J6	J6	0.000	32
(S) 2-Fluorophenol					*47.9*	*48.4*		*12.0-120*				
(S) Phenol-d5					*94.3*	*104*		*10.0-120*				
(S) Nitrobenzene-d5					*0.000*	*0.000*		*10.0-122*	J2	J2		
(S) 2-Fluorobiphenyl					*48.3*	*47.6*		*15.0-120*				
(S) 2,4,6-Tribromophenol					*43.2*	*52.7*		*10.0-127*				
(S) p-Terphenyl-d14					*49.6*	*61.6*		*10.0-120*				

L1848058-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848058-02 04/16/25 00:36 • (MS) R4200143-3 04/16/25 00:57 • (MSD) R4200143-4 04/16/25 01:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %

Sample Narrative:

OS: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

GLOSSARY OF TERMS

Qualifier	Description
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

ORIGINS LABORATORY

ORIGINS WORK ORDER #

Client: CTEH
Address: 5120 North Shore Drive
North Little Rock, AR 72118
Telephone Number: 469-346-6794
Email Address: kylelawrence@cteh.com & cneal@cteh.com

Project Manager: Kyle Lawrence / Carey Neal
Project Name: Bishop Loss of Containment
Project Number: PROJ-054019
Collected By: Wild Well Control
Invoice/Billing Info: ctehap@montrose-env.com

Key:
W= Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NAOH=Sodium Hydroxide
P=Product

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis: Fingerprinting											Comments
1	GAC004085C001	04/08/25	1351	1	P	UNP	X											Rush Analysis
2	GAC004085C002	04/08/25	1353	2	P	UNP	X											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Wild Well	04/08/2025	1555	Carey Neal / CTEH	04/08/2025	1555
Carey Neal/CTEH	04/09/2025	1722	Kristin Lubbers/SPL	4-9-25	17:23

Turnaround Time
☐ SAME DAY ☒ 24 Hr
☒ 48 Hr ☐ 72
☐ Standard

For Lab Sample Receiving Only

Temp Received-

Received On Ice? ☐ Yes ☐ No

4/15 - NCF-L1848058 CTEHER

R2/R3/R4/RX/EX

Time estimate: oh **Time spent:** oh

Members

AV Andy Vann JS Jared Starkey

Due on *23 April 2025 5:00 PM* for target *Done*

- [ ] Login Clarification needed
- [x] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Andy Vann *17 April 2025 8:32 AM*

No chain received.

Jared Starkey *17 April 2025 11:25 AM*

Please proceed, table/email added in place of COC

Matthew Shacklock *21 April 2025 8:29 AM*

Done

CTEHER 4/15 Ro Arriving 18:00

L1848058

Ro, R1

Quantity: 2
Matrix: Product/Source/Waste (Matrix 4)
Analysis: V8260, Sv8270, DRONM, GRO, M6010TAL, NITRATE, NITRITE, BROMIDE, CHLORIDE, FLUORIDE, SULFATE, PTMAR,TKN, NITROGEN, TOCWB
Request: Ro Best effort

Time estimate: oh **Time spent:** oh **Grouping date:** 15 April 2025

Members

JS Jared Starkey

Due on *15 April 2025 17:00* for target *UNKNOWN COLUMN*

Sample Receipt Checklist

COC Seal Present/Intact:	✓Y__N__NP	If Applicable	
COC Signed/Accurate:	__Y ✓N	VOA Zero Headspace:	__Y__N
Bottles arrive intact:	✓Y__N	Pres. Correct/Check:	__Y__N
Correct bottles used:	✓Y__N		
Sufficient volume sent:	✓Y__N	Condition: ___NCF	___OK
RA Screen <0.5 mR/hr:	✓Y__N		

4/15/25 1810

TLA9 - 1.3+0.4 = 1.7°C

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

Stage 2 Data Validation Memorandum
Chevron Bishop Loss of Containment Response Site
Galeton, Colorado
Source/Product Samples
Sample Delivery Group: L1848058
Report Date: June 25, 2025

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the two source/product samples collected on April 8, 2025, at the Chevron Bishop Loss of Containment Response Site in Galeton, Colorado. These samples were analyzed by Pace Analytical National Center for Testing and Innovation (Pace National) of Mount Juliet, Tennessee, for volatile organic compounds (VOCs) by SW-846 Method 8260D, semivolatile organic compounds (SVOCs) by SW-846 Method 8270E, total petroleum hydrocarbons (TPH) low fraction by SW-846 Method 8015D, diesel range organics (DRO; C10-C28) and motor oil range organics (MRO; C28-C36) by SW-846 Method 8015M, total metals by SW-846 Method 6010D, total mercury by SW-846 Method 7471B, hexavalent chromium by SW-846 Method 7199, anions by SW-846 Method 9056A, total nitrogen by calculation, total Kjeldahl nitrogen (TKN) by SM 4500-NORG-D, and total phosphorus by US EPA Method 365.4M.

This review was performed in accordance with the Bishop Loss of Containment, Galeton, Colorado Environmental Sampling and Analysis Plan (CTEH; Version 1.4, May 7, 2025), the Bishop Loss of Containment Incident Draft Quality Assurance Project Plan (QAPP; Environmental Standards, Inc.; Version 1.0, April 25, 2025), and the above-referenced analytical methods. This review was performed with guidance from the National Functional Guidelines for Organic Superfund Methods Data Review (US EPA, 2020) and the National Functional Guidelines for Inorganic Superfund Methods Data Review (US EPA, 2020). These validation guidance documents specifically address analyses performed in accordance with the CLP analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the SM, SW-846, and US EPA methods utilized by the laboratory for these samples. Environmental Standards used professional judgment to determine the quality of the analytical results and compliance relative to the SM, SW-846, and US EPA methods utilized by the laboratory.

Summary

The analytical results and associated laboratory QC samples were reviewed to determine the integrity of the reported analytical results and to ensure that the data met the established measurement quality objectives. This QA review includes all samples in Pace National Sample Delivery Group (SDG) L1848058.

The samples that have undergone Stage 2 data validation are listed below:

Sample Identification	Laboratory Sample Identification	Laboratory SDG	Matrix	Date Sample Collected	Parameters Examined
GACO0408SC001	L1848058-01	L1848058	Source/ Product	4/8/25	VOC, SVOC, TPH, DRO, M, Hg, Cr6, TP, An, TN, TKN
GACO0408SC002	L1848058-02	L1848058	Source/ Product	4/8/25	VOC, SVOC, TPH, DRO, M, Hg, TP, An, TN, TKN

Parameters:

VOC - VOCs by SW-846 Method 8260D.
SVOC - SVOCs by SW-846 Method 8270E.
TPH - TPH Low Fraction by SW-846 Method 8015D.
DRO - DRO (C10-C28) and MRO (C28-C36) by SW-846 Method 8015M.
M - Total Metals by SW-846 Method 6010D.
Hg - Total Hg by SW-846 7471B.
Cr6 - Hexavalent Chromium by SW-846 Method 7199.
TP - Total Phosphorus by US EPA Method 365.4M.
An - Anions by SW-846 Method 9056A.
TN - Total Nitrogen by calculation.
TKN - TKN by SM 4500-NORG-D.

ITEMS REVIEWED

Chain-of-Custody (COC) Record and Case Narrative	Sample Preservation and Condition Upon Laboratory Receipt
Holding Times	Surrogate Recovery
Blank Results	Laboratory Duplicate Results
Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Results	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
Results Reported Between the Method Detection Limit (MDL) and Reporting Limit (RL)	Data Package Completeness

Comments

1. The initial Level 2 analytical report did not include the COC Record for the samples but rather project correspondence, which included the requested analyses, the sample receipt checklist, and a laboratory response including a methods table, indicating analyses that could not be performed on product matrix. Upon Environmental Standards' inquiry, Pace National confirmed and stated, "no COC exists for these samples." On June 6, 2025, Pace National provided a revised Level 2 analytical report, which included an incomplete COC Record that indicated the chain-of-custody from sampling to laboratory receipt at SPL in Greeley, CO on 4/9/25 at 17:23. According to the updated Case Narrative, the samples were collected by Wild Well on 4/8/25 and relinquished from CTEH to SPL with the COC Record on 4/9/25. Per CTEH's request the samples were transferred from SPL to Pace National on 4/14/25; however, during relinquishment to the Pace National courier, the courier was told there was no COC Record available. The Pace National courier packaged the samples on ice prior to shipment and the samples were received at the laboratory on 4/15/25 in good condition and proper temperature. Pace National notified the client the COC Record was not provided and the client provided the COC Record, aforementioned, by email.

2. The results reported for naphthalene in the samples between the VOC and SVOC fractions were significantly different. Upon Environmental Standards' inquiry, Pace National confirmed the naphthalene results and stated, "SVOCs would be a much better method to report naphthalene, because naphthalene is at the very end of ability to purge (poor performer) due to high molecular weight. Add a high dilution due to the sample being product, the results between the two methods are even higher."

3. The positive results reported for naphthalene for the samples in the VOC and SVOC fractions should be considered estimated and have been flagged "J" on the data tables. The naphthalene results between the VOC and SVOC fractions were significantly different (RPD > 100%). (Reason Code: OT)

4. According to the Case Narrative, sample GACO0408SC002 was unable to be analyzed for hexavalent chromium. Upon Environmental Standards' inquiry, Pace National confirmed and stated, "insufficient volume, received two 4oz of product per ID."

5. According to the Case Narrative, the water layer was analyzed for anions for samples GACO0408SC001 and GACO0408SC002 and for hexavalent chromium for sample

GACO0408SC001.

6. According to the sample narratives in the VOC fraction, the results for samples GACO0408SC001 and GACO0408SC002 were reported from a 40× and 20× dilution analyses, respectively, due to target compounds being too high to run at a lower dilution. The laboratory appropriately raised the MDLs and RDLs and the raised values should be acknowledged by the data user.

7. According to the sample narratives in the SVOC fraction, the results for samples GACO0408SC001 and GACO0408SC002 were reported from 143× and 147× dilution analyses, respectively, due to matrix impacts during extraction requiring dilutions. The laboratory appropriately raised the MDLs and RDLs and the raised values should be acknowledged by the data user.

8. In the DRO fraction, the LCS and MS/MSD did not include MRO. The acceptable recovery and precision of DRO was used to evaluate the recovery and precision of MRO in this analysis.

9. In the TPH fraction, an LCSD, MSD, or laboratory duplicate was not analyzed in batch WG2491594; therefore, precision could not be evaluated for this analysis.

10. In the VOC fraction, a trip blank was not submitted or reported with this data set; therefore, contamination could not be evaluated.

11. In the 8270E SVOC fraction, the MS/MSD pair was reported from a 143× dilution analysis due to sample matrix effects. Evaluation of recoveries and relative percent difference (RPD) was not performed by the data reviewer, since the dilution factor was > 5×; therefore, sample representativeness could be inaccurate and imprecise. Qualification of data due to this issue was not warranted but should be acknowledged by the data user.

12. The analysis for hexavalent chromium in sample GACO0408SC001 should be considered unusable, and the “not-detected” result and has been flagged “R” on the data tables. This sample was analyzed significantly beyond (more than twice) the method-specified holding time of 24 hours. Qualification of data due to this is addressed on the table below.

Based on the items included in this QA review, the following qualifiers are offered.

Analyte	Sample(s)	Validation Qualifier	Reason for Qualification
hexavalent chromium	GACO0408SC001	R	HT
di-isopropyl ether	all samples	UJ	LC-
VOC and SVOC naphthalene	all samples	J	OT

- All positive results reported between the MDL and RL should be considered estimated and have been flagged “J” on the data tables. (Reason Code RL)

Review performed by:	Dwight M. Hoster, Quality Assurance Chemist
Report reviewed by:	Thomas H. Weinmann, Senior Quality Assurance Chemist
Report approved by:	Amanda J. Cover, CEAC, Associate Chemist/Project Manager
Date review completed:	6/25/2025

SECTION 2

ANALYTICAL RESULTS

DATA QUALIFIERS

U The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

REASON CODES AND EXPLANATIONS

Reason Code[1]	Description
[1] For any Reason Code that does not indicate that the potential bias is indeterminate, the "+" or "-" reason code may be appended to the qualification reason code in order to indicate a direction of bias (e.g., MS+ would be used to indicate potential high bias due to a high matrix spike recovery)	
+	The associated quality control item indicates a potential high bias in the sample result
-	The associated quality control item indicates a potential low bias in the sample result
AST	Compound not quantitated against an authentic standard; potential bias indeterminate
BF	Contamination present in a field blank (e.g., Field Blank, Equipment Blank, etc.); evaluation criteria exceeded
BL	Contamination present in a laboratory blank (e.g., Method Blank, Instrument Blank, etc.); evaluation criteria exceeded
BN	Elevated detection limit or estimated result due to negative instrument drift (e.g., negative instrument blank result with an absolute value > 2× the method detection limit)
BT	Contamination present in the Trip Blank; evaluation criteria exceeded
CC	Possible contamination due to carryover from a previous sample
CR	Calculated result in which one or more of the components has been qualified
CRQ	Calculated result flagged due to reporting protocol
CT	Cooler temperature criteria not met
CV	Continuing calibration verification evaluation criteria not met
CY	Chemical Yield recovery criteria not met
DI	Detector instability (radionuclide chemistry); potential bias indeterminate
EC	Result exceeds the calibration range; potential bias indeterminate
FD	Field duplicate imprecision; potential bias indeterminate
FP	Target compound identification criteria not met; potential false positive
GH	Headspace present in the gamma spectrometer sample analysis vessel; potential bias indeterminate
GS	Low sample density in the gamma spectrometer sample analysis vessel; potential bias indeterminate
HT	Holding time exceeded
HV	Headspace present in volatile vials
IC	Initial calibration evaluation criteria not met

Reason Code[1]	Description
IN	Interference (e.g., laboratory, chemical, chromatographic/instrumental, and/or matrix) present in the analysis
IR	Interference check standard evaluation criteria not met
IS	Internal standard evaluation criteria not met
LC	Laboratory control sample/laboratory control sample duplicate recovery criteria not met
LCP	Laboratory control sample/laboratory control sample duplicate precision criteria not met; potential bias indeterminate
LD	Laboratory duplicate precision criteria not met; potential bias indeterminate
LR	Linear range exceeded; potential bias indeterminate
MDP	Laboratory deviated from the method for a method-defined parameter, based on regulatory requirements
MS	Matrix spike/matrix spike duplicate recovery criteria not met
MSP	Matrix spike/matrix spike duplicate precision criteria not met; potential bias indeterminate
NQC	Absence of supporting quality control samples
PD	Post-digestion spike recovery criteria not met
OT	Other deficiencies, see validation report for additional details
PM	Performance evaluation mixture criteria not met
PS	Low percent solids; potential bias indeterminate
PT	Chromatographic pattern in sample does not match pattern of calibration standard
QCI	Quantitation/confirmation ion ratios in sample are inconsistent with reference spectra; potential bias indeterminate
RA	Replicate/multiple analyses criteria not met; potential bias indeterminate
RM	Reference material recovery criteria not met
RL	The analysis meets all qualitative identification criteria, but the measured concentration is between the method detection limit and the quantitation or reporting limit; potential bias indeterminate
RS	Reporting limit standard(s) outside of acceptance limits
SA	Method of standard additions criteria not met; potential bias indeterminate
SC	Relative percent difference between two columns exceeds criteria; potential bias indeterminate
SCC	Second column confirmation was not performed as required by the analysis method

Reason Code[1]	Description
SCT	Sample counting time error (radionuclide chemistry); potential bias indeterminate
SD	Serial dilution results did not meet evaluation criteria
SP	Sample preservation criteria not met
SR	Surrogate recovery criteria not met
SS	Second source calibration verification/initial calibration verification criteria not met
ST	Sample container type incorrect
SU	Sample result is less than the two-sigma uncertainty
SUN	Absolute value of the negative sample result is greater than the two-sigma uncertainty
SW	Sample switch suspected
TD	Result for dissolved constituent significantly exceeded result for total constituent; potential bias indeterminate
TIR	Tentatively identified compound; observed in an associated laboratory, equipment, field, or trip blank.
TN	Instrument tune criteria not met
Y	Potential bias due to the y-intercept in the calibration curve significantly affecting the analyte response

Facility: A07-01 Pad
SDG: L1848058

Lab Sample ID	L1848058-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Total Nitrogen	TN	N	INITIAL	mg/Kg		U		0.606	0.606	10.0	N	Y	1	NA
E365.4	Phosphorus,Total	7723-14-0	N	INITIAL	mg/Kg		U		16.0	16.0	20.0	N	Y	1	NA
SM4500-NORG-D	Kjeldahl Nitrogen, TKN	7727-37-9TKN	N	INITIAL	mg/Kg		U		15.2	15.2	20.0	N	Y	1	NA
SW6010	Aluminum	7429-90-5	T	INITIAL	mg/Kg	69.5			6.08	6.08	20.0	Y	Y	1	NA
	Antimony	7440-36-0	T	INITIAL	mg/Kg		U		0.691	0.691	2.00	N	Y	1	NA
	Arsenic	7440-38-2	T	INITIAL	mg/Kg		U		0.837	0.837	2.00	N	Y	1	NA
	Barium	7440-39-3	T	INITIAL	mg/Kg	11.9			0.0850	0.0850	0.500	Y	Y	1	NA
	Beryllium	7440-41-7	T	INITIAL	mg/Kg		U		0.0477	0.0477	0.200	N	Y	1	NA
	Cadmium	7440-43-9	T	INITIAL	mg/Kg		U		0.0653	0.0653	0.500	N	Y	1	NA
	Calcium	7440-70-2	T	INITIAL	mg/Kg	125			19.0	19.0	100	Y	Y	1	NA
	Chromium	7440-47-3	T	INITIAL	mg/Kg	0.617	J	RL	0.214	0.214	1.00	Y	Y	1	NA
	Cobalt	7440-48-4	T	INITIAL	mg/Kg		U		0.177	0.177	1.00	N	Y	1	NA
	Copper	7440-50-8	T	INITIAL	mg/Kg	0.376	J	RL	0.357	0.357	2.00	Y	Y	1	NA
	Iron	7439-89-6	T	INITIAL	mg/Kg	203			2.24	2.24	10.0	Y	Y	1	NA
	Lead	7439-92-1	T	INITIAL	mg/Kg		U		0.326	0.326	0.500	N	Y	1	NA
	Magnesium	7439-95-4	T	INITIAL	mg/Kg		U		19.9	19.9	100	N	Y	1	NA
	Manganese	7439-96-5	T	INITIAL	mg/Kg	1.54			0.173	0.173	1.00	Y	Y	1	NA
	Nickel	7440-02-0	T	INITIAL	mg/Kg		U		0.200	0.200	2.00	N	Y	1	NA
	Potassium	7440-09-7	T	INITIAL	mg/Kg	45.1	J	RL	20.9	20.9	100	Y	Y	1	NA
	Selenium	7782-49-2	T	INITIAL	mg/Kg		U		1.07	1.07	2.00	N	Y	1	NA
	Silver	7440-22-4	T	INITIAL	mg/Kg		U		0.127	0.127	1.00	N	Y	1	NA
	Sodium	7440-23-5	T	INITIAL	mg/Kg	1250			41.2	41.2	100	Y	Y	1	NA
	Thallium	7440-28-0	T	INITIAL	mg/Kg		U		0.518	0.518	2.00	N	Y	1	NA
	Vanadium	7440-62-2	T	INITIAL	mg/Kg		U		0.383	0.383	2.00	N	Y	1	NA
	Zinc	7440-66-6	T	INITIAL	mg/Kg	1.88	J	RL	0.974	0.974	5.00	Y	Y	1	NA
SW7199	Hexavalent Chromium	18540-29-9	N	INITIAL	mg/Kg		R	HT	0.379	0.379	1.00	N	Y	1	NA
SW7471	Mercury	7439-97-6	T	INITIAL	mg/Kg		U		0.0206	0.0206	0.0400	N	Y	1	NA
SW8015	TPH (GC/FID) Low Fraction	8006-61-9	N	INITIAL	mg/Kg	125			2.17	2.17	10.0	Y	Y	100	NA
SW8015M	C10-C28 Diesel Range	DROC10C28	N	INITIAL	mg/Kg	61200			473	473	1180	Y	Y	294	NA
	C28-C36 Motor Oil Range	MORC28C36	N	INITIAL	mg/Kg	25000			80.6	80.6	1180	Y	Y	294	NA
SW8260	1,1,1,2-Tetrachloroethane	630-20-6	N	INITIAL	mg/Kg		U		0.0379	0.0379	0.100	N	Y	40	NA
	1,1,1-Trichloroethane	71-55-6	N	INITIAL	mg/Kg		U		0.0369	0.0369	0.100	N	Y	40	NA

Lab Sample ID	L1848058-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260	1,1,2,2-Tetrachloroethane	79-34-5	N	INITIAL	mg/Kg		U		0.0278	0.0278	0.100	N	Y	40	NA
	1,1,2-Trichloroethane	79-00-5	N	INITIAL	mg/Kg		U		0.0239	0.0239	0.100	N	Y	40	NA
	1,1,2-Trichlorotrifluoroethane	76-13-1	N	INITIAL	mg/Kg		U		0.0302	0.0302	0.100	N	Y	40	NA
	1,1-Dichloroethane	75-34-3	N	INITIAL	mg/Kg		U		0.0196	0.0196	0.100	N	Y	40	NA
	1,1-Dichloroethene	75-35-4	N	INITIAL	mg/Kg		U		0.0242	0.0242	0.100	N	Y	40	NA
	1,1-Dichloropropene	563-58-6	N	INITIAL	mg/Kg		U		0.0324	0.0324	0.100	N	Y	40	NA
	1,2,3-Trichlorobenzene	87-61-6	N	INITIAL	mg/Kg		U		0.293	0.293	0.500	N	Y	40	NA
	1,2,3-Trichloropropane	96-18-4	N	INITIAL	mg/Kg		U		0.0648	0.0648	0.500	N	Y	40	NA
	1,2,3-Trimethylbenzene	526-73-8	N	INITIAL	mg/Kg	2.03			0.0632	0.0632	0.200	Y	Y	40	NA
	1,2,4-Trichlorobenzene	120-82-1	N	INITIAL	mg/Kg		U		0.176	0.176	0.500	N	Y	40	NA
	1,2,4-Trimethylbenzene	95-63-6	N	INITIAL	mg/Kg	6.56			0.0632	0.0632	0.200	Y	Y	40	NA
	1,2-Dibromo-3-Chloropropane	96-12-8	N	INITIAL	mg/Kg		U		0.156	0.156	1.00	N	Y	40	NA
	1,2-Dibromoethane	106-93-4	N	INITIAL	mg/Kg		U		0.0259	0.0259	0.100	N	Y	40	NA
	1,2-Dichlorobenzene	95-50-1	N	INITIAL	mg/Kg		U		0.0170	0.0170	0.200	N	Y	40	NA
	1,2-Dichloroethane	107-06-2	N	INITIAL	mg/Kg		U		0.0260	0.0260	0.100	N	Y	40	NA
	1,2-Dichloropropane	78-87-5	N	INITIAL	mg/Kg		U		0.0568	0.0568	0.200	N	Y	40	NA
	1,3,5-Trimethylbenzene	108-67-8	N	INITIAL	mg/Kg	1.91			0.0800	0.0800	0.200	Y	Y	40	NA
	1,3-Dichlorobenzene	541-73-1	N	INITIAL	mg/Kg		U		0.0240	0.0240	0.200	N	Y	40	NA
	1,3-Dichloropropane	142-28-9	N	INITIAL	mg/Kg		U		0.0200	0.0200	0.200	N	Y	40	NA
	1,4-Dichlorobenzene	106-46-7	N	INITIAL	mg/Kg		U		0.0280	0.0280	0.200	N	Y	40	NA
	2,2-Dichloropropane	594-20-7	N	INITIAL	mg/Kg		U		0.0552	0.0552	0.100	N	Y	40	NA
	2-Butanone (MEK)	78-93-3	N	INITIAL	mg/Kg		U		2.54	2.54	4.00	N	Y	40	NA
	2-Chlorotoluene	95-49-8	N	INITIAL	mg/Kg		U		0.0346	0.0346	0.100	N	Y	40	NA
	4-Chlorotoluene	106-43-4	N	INITIAL	mg/Kg		U		0.0180	0.0180	0.200	N	Y	40	NA
	4-Methyl-2-pentanone (MIBK)	108-10-1	N	INITIAL	mg/Kg		U		0.0912	0.0912	1.00	N	Y	40	NA
	Acetone	67-64-1	N	INITIAL	mg/Kg		U		1.46	1.46	2.00	N	Y	40	NA
	Acrylonitrile	107-13-1	N	INITIAL	mg/Kg		U		0.144	0.144	0.500	N	Y	40	NA
	Benzene	71-43-2	N	INITIAL	mg/Kg	0.852			0.0187	0.0187	0.0400	Y	Y	40	NA
	Bromobenzene	108-86-1	N	INITIAL	mg/Kg		U		0.0360	0.0360	0.500	N	Y	40	NA
	Bromodichloromethane	75-27-4	N	INITIAL	mg/Kg		U		0.0290	0.0290	0.100	N	Y	40	NA
	Bromoform	75-25-2	N	INITIAL	mg/Kg		U		0.0468	0.0468	1.00	N	Y	40	NA
	Bromomethane	74-83-9	N	INITIAL	mg/Kg		U		0.0788	0.0788	0.500	N	Y	40	NA
	Carbon tetrachloride	56-23-5	N	INITIAL	mg/Kg		U		0.0359	0.0359	0.200	N	Y	40	NA

Lab Sample ID	L1848058-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260	Chlorobenzene	108-90-7	N	INITIAL	mg/Kg		U		0.00840	0.00840	0.100	N	Y	40	NA
	Chlorodibromomethane	124-48-1	N	INITIAL	mg/Kg		U		0.0245	0.0245	0.100	N	Y	40	NA
	Chloroethane	75-00-3	N	INITIAL	mg/Kg		U		0.0680	0.0680	0.200	N	Y	40	NA
	Chloroform	67-66-3	N	INITIAL	mg/Kg	0.0770	J	RL	0.0412	0.0412	0.100	Y	Y	40	NA
	Chloromethane	74-87-3	N	INITIAL	mg/Kg		U		0.174	0.174	0.500	N	Y	40	NA
	cis-1,2-Dichloroethene	156-59-2	N	INITIAL	mg/Kg		U		0.0294	0.0294	0.100	N	Y	40	NA
	cis-1,3-Dichloropropene	10061-01-5	N	INITIAL	mg/Kg		U		0.0303	0.0303	0.100	N	Y	40	NA
	Dibromomethane	74-95-3	N	INITIAL	mg/Kg		U		0.0300	0.0300	0.200	N	Y	40	NA
	Dichlorodifluoromethane	75-71-8	N	INITIAL	mg/Kg		U		0.0644	0.0644	0.200	N	Y	40	NA
	Di-isopropyl ether	108-20-3	N	INITIAL	mg/Kg		UJ	LC-	0.0164	0.0164	0.0400	N	Y	40	NA
	Ethylbenzene	100-41-4	N	INITIAL	mg/Kg	1.35			0.0295	0.0295	0.100	Y	Y	40	NA
	Hexachloro-1,3-butadiene	87-68-3	N	INITIAL	mg/Kg		U		0.240	0.240	1.00	N	Y	40	NA
	Isopropylbenzene	98-82-8	N	INITIAL	mg/Kg	0.373			0.0170	0.0170	0.100	Y	Y	40	NA
	Methyl tert-butyl ether	1634-04-4	N	INITIAL	mg/Kg		U		0.0140	0.0140	0.0400	N	Y	40	NA
	Methylene Chloride	75-09-2	N	INITIAL	mg/Kg		U		0.266	0.266	1.00	N	Y	40	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	2.23	J	OT	0.195	0.195	0.500	Y	Y	40	NA
	n-Butylbenzene	104-51-8	N	INITIAL	mg/Kg	0.217	J	RL	0.210	0.210	0.500	Y	Y	40	NA
	n-Propylbenzene	103-65-1	N	INITIAL	mg/Kg	0.919			0.0380	0.0380	0.200	Y	Y	40	NA
	p-Isopropyltoluene	99-87-6	N	INITIAL	mg/Kg	0.637			0.102	0.102	0.200	Y	Y	40	NA
	sec-Butylbenzene	135-98-8	N	INITIAL	mg/Kg	0.300	J	RL	0.115	0.115	0.500	Y	Y	40	NA
	Styrene	100-42-5	N	INITIAL	mg/Kg		U		0.00916	0.00916	0.500	N	Y	40	NA
	tert-Butylbenzene	98-06-6	N	INITIAL	mg/Kg		U		0.0780	0.0780	0.200	N	Y	40	NA
	Tetrachloroethene	127-18-4	N	INITIAL	mg/Kg	0.0600	J	RL	0.0358	0.0358	0.100	Y	Y	40	NA
	Toluene	108-88-3	N	INITIAL	mg/Kg	6.58			0.0520	0.0520	0.200	Y	Y	40	NA
	trans-1,2-Dichloroethene	156-60-5	N	INITIAL	mg/Kg		U		0.0416	0.0416	0.200	N	Y	40	NA
	trans-1,3-Dichloropropene	10061-02-6	N	INITIAL	mg/Kg		U		0.0456	0.0456	0.200	N	Y	40	NA
	Trichloroethene	79-01-6	N	INITIAL	mg/Kg		U		0.0234	0.0234	0.0400	N	Y	40	NA
	Trichlorofluoromethane	75-69-4	N	INITIAL	mg/Kg		U		0.0331	0.0331	0.100	N	Y	40	NA
	Vinyl chloride	75-01-4	N	INITIAL	mg/Kg		U		0.0464	0.0464	0.100	N	Y	40	NA
	Xylenes, Total	1330-20-7	N	INITIAL	mg/Kg	14.3			0.0352	0.0352	0.260	Y	Y	40	NA
SW8270	1,2,4-Trichlorobenzene	120-82-1	N	INITIAL	mg/Kg		U		1.49	1.49	47.6	N	Y	143	NA
	1,2-Dichlorobenzene	95-50-1	N	INITIAL	mg/Kg		U		1.41	1.41	47.6	N	Y	143	NA
	1,3-Dichlorobenzene	541-73-1	N	INITIAL	mg/Kg		U		1.44	1.44	47.6	N	Y	143	NA

Lab Sample ID	L1848058-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8270	1,4-Dichlorobenzene	106-46-7	N	INITIAL	mg/Kg		U		1.42	1.42	47.6	N	Y	143	NA
	2,2-Oxybis(1-Chloropropane)	108-60-1	N	INITIAL	mg/Kg		U		2.06	2.06	47.6	N	Y	143	NA
	2,4,6-Trichlorophenol	88-06-2	N	INITIAL	mg/Kg		U		1.53	1.53	47.6	N	Y	143	NA
	2,4-Dichlorophenol	120-83-2	N	INITIAL	mg/Kg		U		1.39	1.39	47.6	N	Y	143	NA
	2,4-Dimethylphenol	105-67-9	N	INITIAL	mg/Kg		U		1.24	1.24	47.6	N	Y	143	NA
	2,4-Dinitrophenol	51-28-5	N	INITIAL	mg/Kg		U		11.1	11.1	47.6	N	Y	143	NA
	2,4-Dinitrotoluene	121-14-2	N	INITIAL	mg/Kg		U		1.37	1.37	47.6	N	Y	143	NA
	2,6-Dinitrotoluene	606-20-2	N	INITIAL	mg/Kg		U		1.56	1.56	47.6	N	Y	143	NA
	2-Chloronaphthalene	91-58-7	N	INITIAL	mg/Kg		U		0.837	0.837	4.76	N	Y	143	NA
	2-Chlorophenol	95-57-8	N	INITIAL	mg/Kg		U		1.57	1.57	47.6	N	Y	143	NA
	2-Nitrophenol	88-75-5	N	INITIAL	mg/Kg		U		1.70	1.70	47.6	N	Y	143	NA
	3,3-Dichlorobenzidine	91-94-1	N	INITIAL	mg/Kg		U		1.76	1.76	47.6	N	Y	143	NA
	4,6-Dinitro-2-methylphenol	534-52-1	N	INITIAL	mg/Kg		U		10.8	10.8	47.6	N	Y	143	NA
	4-Bromophenyl-phenylether	101-55-3	N	INITIAL	mg/Kg		U		1.67	1.67	47.6	N	Y	143	NA
	4-Chloro-3-methylphenol	59-50-7	N	INITIAL	mg/Kg		U		1.54	1.54	47.6	N	Y	143	NA
	4-Chlorophenyl-phenylether	7005-72-3	N	INITIAL	mg/Kg		U		1.66	1.66	47.6	N	Y	143	NA
	4-Nitrophenol	100-02-7	N	INITIAL	mg/Kg		U		1.49	1.49	47.6	N	Y	143	NA
	Acenaphthene	83-32-9	N	INITIAL	mg/Kg		U		0.771	0.771	4.76	N	Y	143	NA
	Acenaphthylene	208-96-8	N	INITIAL	mg/Kg		U		0.671	0.671	4.76	N	Y	143	NA
	Anthracene	120-12-7	N	INITIAL	mg/Kg		U		0.848	0.848	4.76	N	Y	143	NA
	Benzidine	92-87-5	N	INITIAL	mg/Kg		U		8.95	8.95	239	N	Y	143	NA
	Benzo(a)anthracene	56-55-3	N	INITIAL	mg/Kg		U		0.839	0.839	4.76	N	Y	143	NA
	Benzo(a)pyrene	50-32-8	N	INITIAL	mg/Kg		U		0.885	0.885	4.76	N	Y	143	NA
	Benzo(b)fluoranthene	205-99-2	N	INITIAL	mg/Kg		U		0.888	0.888	4.76	N	Y	143	NA
	Benzo(g,h,i)perylene	191-24-2	N	INITIAL	mg/Kg		U		0.871	0.871	4.76	N	Y	143	NA
	Benzo(k)fluoranthene	207-08-9	N	INITIAL	mg/Kg		U		0.847	0.847	4.76	N	Y	143	NA
	Benzylbutyl phthalate	85-68-7	N	INITIAL	mg/Kg		U		1.49	1.49	47.6	N	Y	143	NA
	Bis(2-chlorethoxy)methane	111-91-1	N	INITIAL	mg/Kg		U		1.43	1.43	47.6	N	Y	143	NA
	Bis(2-chloroethyl)ether	111-44-4	N	INITIAL	mg/Kg		U		1.57	1.57	47.6	N	Y	143	NA
	Bis(2-ethylhexyl)phthalate	117-81-7	N	INITIAL	mg/Kg		U		6.03	6.03	47.6	N	Y	143	NA
	Chrysene	218-01-9	N	INITIAL	mg/Kg		U		0.947	0.947	4.76	N	Y	143	NA
	Dibenz(a,h)anthracene	53-70-3	N	INITIAL	mg/Kg		U		1.32	1.32	4.76	N	Y	143	NA
	Diethyl phthalate	84-66-2	N	INITIAL	mg/Kg		U		1.57	1.57	47.6	N	Y	143	NA

Lab Sample ID	L1848058-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8270	Dimethyl phthalate	131-11-3	N	INITIAL	mg/Kg		U		10.1	10.1	47.6	N	Y	143	NA
	Di-n-butyl phthalate	84-74-2	N	INITIAL	mg/Kg		U		1.63	1.63	47.6	N	Y	143	NA
	Di-n-octyl phthalate	117-84-0	N	INITIAL	mg/Kg		U		3.22	3.22	47.6	N	Y	143	NA
	Fluoranthene	206-44-0	N	INITIAL	mg/Kg		U		0.859	0.859	4.76	N	Y	143	NA
	Fluorene	86-73-7	N	INITIAL	mg/Kg	31.0			0.775	0.775	4.76	Y	Y	143	NA
	Hexachloro-1,3-butadiene	87-68-3	N	INITIAL	mg/Kg		U		1.60	1.60	47.6	N	Y	143	NA
	Hexachlorobenzene	118-74-1	N	INITIAL	mg/Kg		U		1.69	1.69	47.6	N	Y	143	NA
	Hexachlorocyclopentadiene	77-47-4	N	INITIAL	mg/Kg		U		2.50	2.50	47.6	N	Y	143	NA
	Hexachloroethane	67-72-1	N	INITIAL	mg/Kg		U		1.87	1.87	47.6	N	Y	143	NA
	Indeno(1,2,3-cd)pyrene	193-39-5	N	INITIAL	mg/Kg		U		1.35	1.35	4.76	N	Y	143	NA
	Isophorone	78-59-1	N	INITIAL	mg/Kg		U		1.46	1.46	47.6	N	Y	143	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	68.9	J	OT	1.20	1.20	4.76	Y	Y	143	NA
	Nitrobenzene	98-95-3	N	INITIAL	mg/Kg		U		1.66	1.66	47.6	N	Y	143	NA
	n-Nitrosodimethylamine	62-75-9	N	INITIAL	mg/Kg		U		7.06	7.06	47.6	N	Y	143	NA
	n-Nitrosodi-n-propylamine	621-64-7	N	INITIAL	mg/Kg		U		1.59	1.59	47.6	N	Y	143	NA
	n-Nitrosodiphenylamine	86-30-6	N	INITIAL	mg/Kg		U		3.60	3.60	47.6	N	Y	143	NA
	Pentachlorophenol	87-86-5	N	INITIAL	mg/Kg		U		1.28	1.28	47.6	N	Y	143	NA
	Phenanthrene	85-01-8	N	INITIAL	mg/Kg	35.7			0.945	0.945	4.76	Y	Y	143	NA
	Phenol	108-95-2	N	INITIAL	mg/Kg		U		1.92	1.92	47.6	N	Y	143	NA
	Pyrene	129-00-0	N	INITIAL	mg/Kg		U		0.927	0.927	4.76	N	Y	143	NA
SW9056	Bromide	24959-67-9	N	INITIAL	mg/Kg	18.1			4.10	4.10	10.0	Y	Y	1	NA
	Chloride	16887-00-6	N	DILUTION	mg/Kg	1930			31.8	31.8	100	Y	Y	5	NA
	Fluoride	16984-48-8	N	INITIAL	mg/Kg	0.909	J	RL	0.706	0.706	2.00	Y	Y	1	NA
	Nitrate as (N)	14797-55-8	N	INITIAL	mg/Kg		U		0.952	0.952	10.0	N	Y	1	NA
	Nitrite as (N)	14797-65-0	N	INITIAL	mg/Kg		U		0.606	0.606	10.0	N	Y	1	NA
	Sulfate	14808-79-8	N	INITIAL	mg/Kg	30.2	J	RL	8.24	8.24	50.0	Y	Y	1	NA

Lab Sample ID	L1848058-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Total Nitrogen	TN	N	INITIAL	mg/Kg		U		0.606	0.606	10.0	N	Y	1	NA
E365.4	Phosphorus,Total	7723-14-0	N	INITIAL	mg/Kg		U		16.0	16.0	20.0	N	Y	1	NA
SM4500-NORG-D	Kjeldahl Nitrogen, TKN	7727-37-9TKN	N	INITIAL	mg/Kg		U		15.2	15.2	20.0	N	Y	1	NA
SW6010	Aluminum	7429-90-5	T	INITIAL	mg/Kg	15.5	J	RL	6.08	6.08	20.0	Y	Y	1	NA
	Antimony	7440-36-0	T	INITIAL	mg/Kg		U		0.691	0.691	2.00	N	Y	1	NA
	Arsenic	7440-38-2	T	INITIAL	mg/Kg		U		0.837	0.837	2.00	N	Y	1	NA
	Barium	7440-39-3	T	INITIAL	mg/Kg	2.27			0.0850	0.0850	0.500	Y	Y	1	NA
	Beryllium	7440-41-7	T	INITIAL	mg/Kg		U		0.0477	0.0477	0.200	N	Y	1	NA
	Cadmium	7440-43-9	T	INITIAL	mg/Kg		U		0.0653	0.0653	0.500	N	Y	1	NA
	Calcium	7440-70-2	T	INITIAL	mg/Kg	30.2	J	RL	19.0	19.0	100	Y	Y	1	NA
	Chromium	7440-47-3	T	INITIAL	mg/Kg		U		0.214	0.214	1.00	N	Y	1	NA
	Cobalt	7440-48-4	T	INITIAL	mg/Kg		U		0.177	0.177	1.00	N	Y	1	NA
	Copper	7440-50-8	T	INITIAL	mg/Kg		U		0.357	0.357	2.00	N	Y	1	NA
	Iron	7439-89-6	T	INITIAL	mg/Kg	26.1			2.24	2.24	10.0	Y	Y	1	NA
	Lead	7439-92-1	T	INITIAL	mg/Kg		U		0.326	0.326	0.500	N	Y	1	NA
	Magnesium	7439-95-4	T	INITIAL	mg/Kg		U		19.9	19.9	100	N	Y	1	NA
	Manganese	7439-96-5	T	INITIAL	mg/Kg	0.299	J	RL	0.173	0.173	1.00	Y	Y	1	NA
	Nickel	7440-02-0	T	INITIAL	mg/Kg		U		0.200	0.200	2.00	N	Y	1	NA
	Potassium	7440-09-7	T	INITIAL	mg/Kg		U		20.9	20.9	100	N	Y	1	NA
	Selenium	7782-49-2	T	INITIAL	mg/Kg		U		1.07	1.07	2.00	N	Y	1	NA
	Silver	7440-22-4	T	INITIAL	mg/Kg		U		0.127	0.127	1.00	N	Y	1	NA
	Sodium	7440-23-5	T	INITIAL	mg/Kg	130			41.2	41.2	100	Y	Y	1	NA
	Thallium	7440-28-0	T	INITIAL	mg/Kg		U		0.518	0.518	2.00	N	Y	1	NA
	Vanadium	7440-62-2	T	INITIAL	mg/Kg		U		0.383	0.383	2.00	N	Y	1	NA
	Zinc	7440-66-6	T	INITIAL	mg/Kg	2.33	J	RL	0.974	0.974	5.00	Y	Y	1	NA
SW7471	Mercury	7439-97-6	T	INITIAL	mg/Kg		U		0.0206	0.0206	0.0400	N	Y	1	NA
SW8015	TPH (GC/FID) Low Fraction	8006-61-9	N	INITIAL	mg/Kg	105			5.43	5.43	25.0	Y	Y	250	NA
SW8015M	C10-C28 Diesel Range	DROC10C28	N	INITIAL	mg/Kg	148000			902	902	2240	Y	Y	560	NA
	C28-C36 Motor Oil Range	MORC28C36	N	INITIAL	mg/Kg	60900			153	153	2240	Y	Y	560	NA
SW8260	1,1,1,2-Tetrachloroethane	630-20-6	N	INITIAL	mg/Kg		U		0.0190	0.0190	0.0500	N	Y	20	NA
	1,1,1-Trichloroethane	71-55-6	N	INITIAL	mg/Kg		U		0.0185	0.0185	0.0500	N	Y	20	NA
	1,1,2,2-Tetrachloroethane	79-34-5	N	INITIAL	mg/Kg		U		0.0139	0.0139	0.0500	N	Y	20	NA

Lab Sample ID	L1848058-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260	1,1,2-Trichloroethane	79-00-5	N	INITIAL	mg/Kg	0.0198	J	RL	0.0119	0.0119	0.0500	Y	Y	20	NA
	1,1,2-Trichlorotrifluoroethane	76-13-1	N	INITIAL	mg/Kg		U		0.0151	0.0151	0.0500	N	Y	20	NA
	1,1-Dichloroethane	75-34-3	N	INITIAL	mg/Kg		U		0.00982	0.00982	0.0500	N	Y	20	NA
	1,1-Dichloroethene	75-35-4	N	INITIAL	mg/Kg		U		0.0121	0.0121	0.0500	N	Y	20	NA
	1,1-Dichloropropene	563-58-6	N	INITIAL	mg/Kg		U		0.0162	0.0162	0.0500	N	Y	20	NA
	1,2,3-Trichlorobenzene	87-61-6	N	INITIAL	mg/Kg		U		0.147	0.147	0.250	N	Y	20	NA
	1,2,3-Trichloropropane	96-18-4	N	INITIAL	mg/Kg		U		0.0324	0.0324	0.250	N	Y	20	NA
	1,2,3-Trimethylbenzene	526-73-8	N	INITIAL	mg/Kg	1.83			0.0316	0.0316	0.100	Y	Y	20	NA
	1,2,4-Trichlorobenzene	120-82-1	N	INITIAL	mg/Kg		U		0.0880	0.0880	0.250	N	Y	20	NA
	1,2,4-Trimethylbenzene	95-63-6	N	INITIAL	mg/Kg	5.84			0.0316	0.0316	0.100	Y	Y	20	NA
	1,2-Dibromo-3-Chloropropane	96-12-8	N	INITIAL	mg/Kg		U		0.0780	0.0780	0.500	N	Y	20	NA
	1,2-Dibromoethane	106-93-4	N	INITIAL	mg/Kg		U		0.0130	0.0130	0.0500	N	Y	20	NA
	1,2-Dichlorobenzene	95-50-1	N	INITIAL	mg/Kg		U		0.00850	0.00850	0.100	N	Y	20	NA
	1,2-Dichloroethane	107-06-2	N	INITIAL	mg/Kg		U		0.0130	0.0130	0.0500	N	Y	20	NA
	1,2-Dichloropropane	78-87-5	N	INITIAL	mg/Kg		U		0.0284	0.0284	0.100	N	Y	20	NA
	1,3,5-Trimethylbenzene	108-67-8	N	INITIAL	mg/Kg	1.55			0.0400	0.0400	0.100	Y	Y	20	NA
	1,3-Dichlorobenzene	541-73-1	N	INITIAL	mg/Kg		U		0.0120	0.0120	0.100	N	Y	20	NA
	1,3-Dichloropropane	142-28-9	N	INITIAL	mg/Kg		U		0.0100	0.0100	0.100	N	Y	20	NA
	1,4-Dichlorobenzene	106-46-7	N	INITIAL	mg/Kg		U		0.0140	0.0140	0.100	N	Y	20	NA
	2,2-Dichloropropane	594-20-7	N	INITIAL	mg/Kg		U		0.0276	0.0276	0.0500	N	Y	20	NA
	2-Butanone (MEK)	78-93-3	N	INITIAL	mg/Kg		U		1.27	1.27	2.00	N	Y	20	NA
	2-Chlorotoluene	95-49-8	N	INITIAL	mg/Kg		U		0.0173	0.0173	0.0500	N	Y	20	NA
	4-Chlorotoluene	106-43-4	N	INITIAL	mg/Kg		U		0.00900	0.00900	0.100	N	Y	20	NA
	4-Methyl-2-pentanone (MIBK)	108-10-1	N	INITIAL	mg/Kg		U		0.0456	0.0456	0.500	N	Y	20	NA
	Acetone	67-64-1	N	INITIAL	mg/Kg		U		0.730	0.730	1.00	N	Y	20	NA
	Acrylonitrile	107-13-1	N	INITIAL	mg/Kg		U		0.0722	0.0722	0.250	N	Y	20	NA
	Benzene	71-43-2	N	INITIAL	mg/Kg	0.495			0.00934	0.00934	0.0200	Y	Y	20	NA
	Bromobenzene	108-86-1	N	INITIAL	mg/Kg		U		0.0180	0.0180	0.250	N	Y	20	NA
	Bromodichloromethane	75-27-4	N	INITIAL	mg/Kg		U		0.0145	0.0145	0.0500	N	Y	20	NA
	Bromoform	75-25-2	N	INITIAL	mg/Kg		U		0.0234	0.0234	0.500	N	Y	20	NA
	Bromomethane	74-83-9	N	INITIAL	mg/Kg		U		0.0394	0.0394	0.250	N	Y	20	NA
	Carbon tetrachloride	56-23-5	N	INITIAL	mg/Kg		U		0.0180	0.0180	0.100	N	Y	20	NA
	Chlorobenzene	108-90-7	N	INITIAL	mg/Kg		U		0.00420	0.00420	0.0500	N	Y	20	NA

Lab Sample ID	L1848058-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260	Chlorodibromomethane	124-48-1	N	INITIAL	mg/Kg		U		0.0122	0.0122	0.0500	N	Y	20	NA
	Chloroethane	75-00-3	N	INITIAL	mg/Kg		U		0.0340	0.0340	0.100	N	Y	20	NA
	Chloroform	67-66-3	N	INITIAL	mg/Kg	0.0416	J	RL	0.0206	0.0206	0.0500	Y	Y	20	NA
	Chloromethane	74-87-3	N	INITIAL	mg/Kg		U		0.0870	0.0870	0.250	N	Y	20	NA
	cis-1,2-Dichloroethene	156-59-2	N	INITIAL	mg/Kg		U		0.0147	0.0147	0.0500	N	Y	20	NA
	cis-1,3-Dichloropropene	10061-01-5	N	INITIAL	mg/Kg		U		0.0151	0.0151	0.0500	N	Y	20	NA
	Dibromomethane	74-95-3	N	INITIAL	mg/Kg		U		0.0150	0.0150	0.100	N	Y	20	NA
	Dichlorodifluoromethane	75-71-8	N	INITIAL	mg/Kg		U		0.0322	0.0322	0.100	N	Y	20	NA
	Di-isopropyl ether	108-20-3	N	INITIAL	mg/Kg		UJ	LC-	0.00820	0.00820	0.0200	N	Y	20	NA
	Ethylbenzene	100-41-4	N	INITIAL	mg/Kg	1.21			0.0147	0.0147	0.0500	Y	Y	20	NA
	Hexachloro-1,3-butadiene	87-68-3	N	INITIAL	mg/Kg		U		0.120	0.120	0.500	N	Y	20	NA
	Isopropylbenzene	98-82-8	N	INITIAL	mg/Kg	0.276			0.00850	0.00850	0.0500	Y	Y	20	NA
	Methyl tert-butyl ether	1634-04-4	N	INITIAL	mg/Kg		U		0.00700	0.00700	0.0200	N	Y	20	NA
	Methylene Chloride	75-09-2	N	INITIAL	mg/Kg		U		0.133	0.133	0.500	N	Y	20	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	2.36	J	OT	0.0976	0.0976	0.250	Y	Y	20	NA
	n-Butylbenzene	104-51-8	N	INITIAL	mg/Kg	0.197	J	RL	0.105	0.105	0.250	Y	Y	20	NA
	n-Propylbenzene	103-65-1	N	INITIAL	mg/Kg	0.769			0.0190	0.0190	0.100	Y	Y	20	NA
	p-Isopropyltoluene	99-87-6	N	INITIAL	mg/Kg	0.533			0.0510	0.0510	0.100	Y	Y	20	NA
	sec-Butylbenzene	135-98-8	N	INITIAL	mg/Kg	0.244	J	RL	0.0576	0.0576	0.250	Y	Y	20	NA
	Styrene	100-42-5	N	INITIAL	mg/Kg		U		0.00458	0.00458	0.250	N	Y	20	NA
	tert-Butylbenzene	98-06-6	N	INITIAL	mg/Kg		U		0.0390	0.0390	0.100	N	Y	20	NA
	Tetrachloroethene	127-18-4	N	INITIAL	mg/Kg		U		0.0179	0.0179	0.0500	N	Y	20	NA
	Toluene	108-88-3	N	INITIAL	mg/Kg	5.19			0.0260	0.0260	0.100	Y	Y	20	NA
	trans-1,2-Dichloroethene	156-60-5	N	INITIAL	mg/Kg		U		0.0208	0.0208	0.100	N	Y	20	NA
	trans-1,3-Dichloropropene	10061-02-6	N	INITIAL	mg/Kg		U		0.0228	0.0228	0.100	N	Y	20	NA
	Trichloroethene	79-01-6	N	INITIAL	mg/Kg		U		0.0117	0.0117	0.0200	N	Y	20	NA
	Trichlorofluoromethane	75-69-4	N	INITIAL	mg/Kg		U		0.0165	0.0165	0.0500	N	Y	20	NA
	Vinyl chloride	75-01-4	N	INITIAL	mg/Kg		U		0.0232	0.0232	0.0500	N	Y	20	NA
	Xylenes, Total	1330-20-7	N	INITIAL	mg/Kg	11.7			0.0176	0.0176	0.130	Y	Y	20	NA
SW8270	1,2,4-Trichlorobenzene	120-82-1	N	INITIAL	mg/Kg		U		1.53	1.53	49.0	N	Y	147	NA
	1,2-Dichlorobenzene	95-50-1	N	INITIAL	mg/Kg		U		1.45	1.45	49.0	N	Y	147	NA
	1,3-Dichlorobenzene	541-73-1	N	INITIAL	mg/Kg		U		1.48	1.48	49.0	N	Y	147	NA
	1,4-Dichlorobenzene	106-46-7	N	INITIAL	mg/Kg		U		1.46	1.46	49.0	N	Y	147	NA

Lab Sample ID	L1848058-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8270	2,2-Oxybis(1-Chloropropane)	108-60-1	N	INITIAL	mg/Kg		U		2.12	2.12	49.0	N	Y	147	NA
	2,4,6-Trichlorophenol	88-06-2	N	INITIAL	mg/Kg		U		1.57	1.57	49.0	N	Y	147	NA
	2,4-Dichlorophenol	120-83-2	N	INITIAL	mg/Kg		U		1.43	1.43	49.0	N	Y	147	NA
	2,4-Dimethylphenol	105-67-9	N	INITIAL	mg/Kg		U		1.28	1.28	49.0	N	Y	147	NA
	2,4-Dinitrophenol	51-28-5	N	INITIAL	mg/Kg		U		11.5	11.5	49.0	N	Y	147	NA
	2,4-Dinitrotoluene	121-14-2	N	INITIAL	mg/Kg		U		1.40	1.40	49.0	N	Y	147	NA
	2,6-Dinitrotoluene	606-20-2	N	INITIAL	mg/Kg		U		1.60	1.60	49.0	N	Y	147	NA
	2-Chloronaphthalene	91-58-7	N	INITIAL	mg/Kg		U		0.860	0.860	4.90	N	Y	147	NA
	2-Chlorophenol	95-57-8	N	INITIAL	mg/Kg		U		1.62	1.62	49.0	N	Y	147	NA
	2-Nitrophenol	88-75-5	N	INITIAL	mg/Kg		U		1.75	1.75	49.0	N	Y	147	NA
	3,3-Dichlorobenzidine	91-94-1	N	INITIAL	mg/Kg		U		1.81	1.81	49.0	N	Y	147	NA
	4,6-Dinitro-2-methylphenol	534-52-1	N	INITIAL	mg/Kg		U		11.1	11.1	49.0	N	Y	147	NA
	4-Bromophenyl-phenylether	101-55-3	N	INITIAL	mg/Kg		U		1.72	1.72	49.0	N	Y	147	NA
	4-Chloro-3-methylphenol	59-50-7	N	INITIAL	mg/Kg		U		1.59	1.59	49.0	N	Y	147	NA
	4-Chlorophenyl-phenylether	7005-72-3	N	INITIAL	mg/Kg		U		1.71	1.71	49.0	N	Y	147	NA
	4-Nitrophenol	100-02-7	N	INITIAL	mg/Kg		U		1.53	1.53	49.0	N	Y	147	NA
	Acenaphthene	83-32-9	N	INITIAL	mg/Kg		U		0.792	0.792	4.90	N	Y	147	NA
	Acenaphthylene	208-96-8	N	INITIAL	mg/Kg		U		0.689	0.689	4.90	N	Y	147	NA
	Anthracene	120-12-7	N	INITIAL	mg/Kg		U		0.872	0.872	4.90	N	Y	147	NA
	Benzidine	92-87-5	N	INITIAL	mg/Kg		U		9.20	9.20	245	N	Y	147	NA
	Benzo(a)anthracene	56-55-3	N	INITIAL	mg/Kg		U		0.863	0.863	4.90	N	Y	147	NA
	Benzo(a)pyrene	50-32-8	N	INITIAL	mg/Kg		U		0.910	0.910	4.90	N	Y	147	NA
	Benzo(b)fluoranthene	205-99-2	N	INITIAL	mg/Kg		U		0.913	0.913	4.90	N	Y	147	NA
	Benzo(g,h,i)perylene	191-24-2	N	INITIAL	mg/Kg		U		0.895	0.895	4.90	N	Y	147	NA
	Benzo(k)fluoranthene	207-08-9	N	INITIAL	mg/Kg		U		0.870	0.870	4.90	N	Y	147	NA
	Benzylbutyl phthalate	85-68-7	N	INITIAL	mg/Kg		U		1.53	1.53	49.0	N	Y	147	NA
	Bis(2-chlorethoxy)methane	111-91-1	N	INITIAL	mg/Kg		U		1.47	1.47	49.0	N	Y	147	NA
	Bis(2-chloroethyl)ether	111-44-4	N	INITIAL	mg/Kg		U		1.62	1.62	49.0	N	Y	147	NA
	Bis(2-ethylhexyl)phthalate	117-81-7	N	INITIAL	mg/Kg		U		6.20	6.20	49.0	N	Y	147	NA
	Chrysene	218-01-9	N	INITIAL	mg/Kg		U		0.973	0.973	4.90	N	Y	147	NA
	Dibenz(a,h)anthracene	53-70-3	N	INITIAL	mg/Kg		U		1.36	1.36	4.90	N	Y	147	NA
	Diethyl phthalate	84-66-2	N	INITIAL	mg/Kg		U		1.62	1.62	49.0	N	Y	147	NA
	Dimethyl phthalate	131-11-3	N	INITIAL	mg/Kg		U		10.4	10.4	49.0	N	Y	147	NA

Lab Sample ID	L1848058-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8270	Di-n-butyl phthalate	84-74-2	N	INITIAL	mg/Kg		U		1.68	1.68	49.0	N	Y	147	NA
	Di-n-octyl phthalate	117-84-0	N	INITIAL	mg/Kg		U		3.31	3.31	49.0	N	Y	147	NA
	Fluoranthene	206-44-0	N	INITIAL	mg/Kg		U		0.883	0.883	4.90	N	Y	147	NA
	Fluorene	86-73-7	N	INITIAL	mg/Kg	13.9			0.797	0.797	4.90	Y	Y	147	NA
	Hexachloro-1,3-butadiene	87-68-3	N	INITIAL	mg/Kg		U		1.65	1.65	49.0	N	Y	147	NA
	Hexachlorobenzene	118-74-1	N	INITIAL	mg/Kg		U		1.73	1.73	49.0	N	Y	147	NA
	Hexachlorocyclopentadiene	77-47-4	N	INITIAL	mg/Kg		U		2.57	2.57	49.0	N	Y	147	NA
	Hexachloroethane	67-72-1	N	INITIAL	mg/Kg		U		1.93	1.93	49.0	N	Y	147	NA
	Indeno(1,2,3-cd)pyrene	193-39-5	N	INITIAL	mg/Kg		U		1.38	1.38	4.90	N	Y	147	NA
	Isophorone	78-59-1	N	INITIAL	mg/Kg		U		1.50	1.50	49.0	N	Y	147	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	32.4	J	OT	1.23	1.23	4.90	Y	Y	147	NA
	Nitrobenzene	98-95-3	N	INITIAL	mg/Kg		U		1.71	1.71	49.0	N	Y	147	NA
	n-Nitrosodimethylamine	62-75-9	N	INITIAL	mg/Kg		U		7.26	7.26	49.0	N	Y	147	NA
	n-Nitrosodi-n-propylamine	621-64-7	N	INITIAL	mg/Kg		U		1.63	1.63	49.0	N	Y	147	NA
	n-Nitrosodiphenylamine	86-30-6	N	INITIAL	mg/Kg		U		3.70	3.70	49.0	N	Y	147	NA
	Pentachlorophenol	87-86-5	N	INITIAL	mg/Kg		U		1.32	1.32	49.0	N	Y	147	NA
	Phenanthrene	85-01-8	N	INITIAL	mg/Kg	18.7			0.972	0.972	4.90	Y	Y	147	NA
	Phenol	108-95-2	N	INITIAL	mg/Kg		U		1.97	1.97	49.0	N	Y	147	NA
	Pyrene	129-00-0	N	INITIAL	mg/Kg		U		0.953	0.953	4.90	N	Y	147	NA
SW9056	Bromide	24959-67-9	N	INITIAL	mg/Kg		U		4.10	4.10	10.0	N	Y	1	NA
	Chloride	16887-00-6	N	INITIAL	mg/Kg	186			6.35	6.35	20.0	Y	Y	1	NA
	Fluoride	16984-48-8	N	INITIAL	mg/Kg		U		0.706	0.706	2.00	N	Y	1	NA
	Nitrate as (N)	14797-55-8	N	INITIAL	mg/Kg		U		0.952	0.952	10.0	N	Y	1	NA
	Nitrite as (N)	14797-65-0	N	INITIAL	mg/Kg		U		0.606	0.606	10.0	N	Y	1	NA
	Sulfate	14808-79-8	N	INITIAL	mg/Kg		U		8.24	8.24	50.0	N	Y	1	NA

Attachment B2: Laboratory Reports - Newfields

ANALYTICAL REPORT

Lab Number:	L2521788
Client:	NewFields 300 Ledgewood Place Suite 205 Rockland, MA 02370
ATTN:	Ted Healey
Phone:	(781) 264-4950
Project Name:	BISHOP LOSS OF CONTAINMENT
Project Number:	PROJ-054019
Report Date:	04/21/25

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2521788-01	GACO0408SC001	OIL	Not Specified	04/08/25 13:51	04/10/25
L2521788-02	GACO0408SC002	OIL	Not Specified	04/08/25 13:53	04/10/25

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Case Narrative (continued)

Report Submission

April 21, 2025: This final report imcludes the results of all requested analyses.

April 17, 2025: This is a preliminary report pending inclusion of the biomarker results.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2521788-01D and -02D: The sample was re-analyzed on a further dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2521788-01D and -02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG2054816-6 Method Blank associated with L2521788-01D2, -01D, -02D2, and -02D has concentrations below the reporting limits and "J" qualified. Associated field sample results are "B" qualified if the concentrations are less than 10x the concentrations in the blank.

Semivolatile Organics

Concentrations for compounds flagged with "G" qualifiers may be biased high due to matrix interference included in the quantitation.

The biomarker surrogate 5(b)H-Cholane was not added to these samples and recoveries are not reported.

The WG2054480-1 Method Blank associated with L2521788-01 and -02 has concentrations below the reporting limits and "J" qualified. Associated field sample results are "B" qualified if the concentrations are less than 10x the concentrations in the blank.

Petroleum Hydrocarbon Quantitation

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Case Narrative (continued)

The WG2054480-1 Method Blank associated with L2521788-01 and -02 has concentrations below the reporting limits and "J" qualified. Associated field sample results are "B" qualified if the concentrations are less than 10x the concentrations in the blank.

Total Metals

The WG2054698-4 Laboratory Duplicate RPDs performed on L2521788-01 are outside the acceptance criteria for calcium (64%), iron (56%), and sodium (126%) due to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 04/21/25

ORGANICS

VOLATILES

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 D2 Date Collected: 04/08/25 13:51
Client ID: GACO0408SC001 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 04/16/25 00:37
Analyst: MJS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Nonane (C9)	3760		mg/kg	193	30.0	20
Decane (C10)	6900		mg/kg	193	26.2	20
Undecane	7350		mg/kg	193	21.4	20
Dodecane (C12)	6780		mg/kg	483	63.5	20
Tridecane	6400		mg/kg	483	134.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	86		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	103		70-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 D
Client ID: GACO0408SC001
Sample Location: Not Specified

Date Collected: 04/08/25 13:51
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 04/15/25 15:13
Analyst: MJS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isopentane	170		mg/kg	38.6	7.07	4
1-Pentene	ND		mg/kg	38.6	7.05	4
2-Methyl-1-Butene	ND		mg/kg	38.6	6.01	4
Pentane	264		mg/kg	38.6	12.0	4
trans-2-Pentene	ND		mg/kg	38.6	5.22	4
cis-2-Pentene	ND		mg/kg	38.6	6.22	4
Tertiary Butanol	ND		mg/kg	483	156.	4
Cyclopentane	40.7		mg/kg	38.6	10.0	4
2,3-Dimethylbutane	25.0	J	mg/kg	38.6	16.0	4
2-Methylpentane	191		mg/kg	38.6	10.5	4
Methyl tert butyl ether	ND		mg/kg	38.6	7.96	4
3-Methylpentane	124		mg/kg	38.6	6.12	4
1-Hexene	ND		mg/kg	38.6	5.43	4
n-Hexane	410		mg/kg	96.6	6.36	4
Isopropyl Ether	ND		mg/kg	38.6	4.68	4
Ethyl-Tert-Butyl-Ether	ND		mg/kg	38.6	5.86	4
2,2-Dimethylpentane	9.33	J	mg/kg	38.6	5.20	4
Methylcyclopentane	248		mg/kg	38.6	5.18	4
2,4-Dimethylpentane	35.3	J	mg/kg	38.6	4.77	4
1,2-Dichloroethane	ND		mg/kg	38.6	5.70	4
Cyclohexane	332		mg/kg	38.6	4.77	4
2-Methylhexane	246		mg/kg	38.6	9.00	4
Benzene	51.9		mg/kg	38.6	5.89	4
2,3-Dimethylpentane	100		mg/kg	38.6	5.12	4
Thiophene	ND		mg/kg	38.6	5.49	4
3-Methylhexane	276		mg/kg	38.6	6.18	4
Tertiary-Amyl Methyl Ether	ND		mg/kg	38.6	4.75	4
1-Heptene/1,2-DMCP (trans)	210		mg/kg	77.3	11.3	4

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 D
Client ID: GACO0408SC001
Sample Location: Not Specified

Date Collected: 04/08/25 13:51
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isooctane	ND		mg/kg	38.6	4.21	4
Heptane	1050		mg/kg	38.6	6.72	4
Methylcyclohexane	1020		mg/kg	38.6	5.22	4
2,5-Dimethylhexane	53.5		mg/kg	38.6	6.72	4
2,4-Dimethylhexane	86.7		mg/kg	38.6	4.70	4
2,2,3-Trimethylpentane	7.46	J	mg/kg	38.6	6.70	4
2,3,4-Trimethylpentane	24.0	J	mg/kg	38.6	5.04	4
2,3,3-Trimethylpentane	13.3	J	mg/kg	38.6	7.67	4
2,3-Dimethylhexane	76.8		mg/kg	38.6	9.37	4
2-Methylheptane	779		mg/kg	38.6	8.95	4
3-Methylheptane	414		mg/kg	38.6	5.51	4
3-Ethylhexane	48.7		mg/kg	38.6	6.92	4
Toluene	733		mg/kg	38.6	5.24	4
2-Methylthiophene	ND		mg/kg	38.6	3.28	4
3-Methylthiophene	ND		mg/kg	38.6	4.52	4
1-Octene	ND		mg/kg	96.6	5.93	4
Octane	2170		mg/kg	38.6	4.54	4
1,2-Dibromoethane	ND		mg/kg	38.6	6.18	4
Ethylbenzene	267		mg/kg	38.6	4.17	4
2-Ethylthiophene	2.86	J	mg/kg	38.6	4.23	4
p/m-Xylene	2130		mg/kg	77.3	7.36	4
1-Nonene	ND		mg/kg	96.6	5.22	4
Nonane (C9)	4010	E	mg/kg	38.6	6.01	4
Styrene	ND		mg/kg	38.6	3.90	4
o-Xylene	904		mg/kg	38.6	4.04	4
Isopropylbenzene	111		mg/kg	38.6	6.45	4
n-Propylbenzene	349		mg/kg	38.6	3.42	4
1-Methyl-3-Ethylbenzene	886		mg/kg	38.6	6.11	4
1-Methyl-4-Ethylbenzene	362		mg/kg	38.6	5.45	4
1,3,5-Trimethylbenzene	808		mg/kg	38.6	4.44	4
1-Decene	ND		mg/kg	38.6	5.02	4
1-Methyl-2-Ethylbenzene	289		mg/kg	38.6	3.28	4
Decane (C10)	6610	E	mg/kg	38.6	5.24	4
1,2,4-Trimethylbenzene	2510		mg/kg	38.6	4.00	4
sec-Butylbenzene	156		mg/kg	38.6	5.00	4
1-Methyl-3-Isopropylbenzene	281		mg/kg	38.6	4.98	4
1-Methyl-4-Isopropylbenzene	132		mg/kg	38.6	4.10	4

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 D
Client ID: GACO0408SC001
Sample Location: Not Specified

Date Collected: 04/08/25 13:51
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
1-Methyl-2-Isopropylbenzene	42.9		mg/kg	38.6	4.19	4
Indane	43.2		mg/kg	38.6	2.38	4
1-Methyl-3-N-Propylbenzene	830		mg/kg	38.6	3.90	4
1-Methyl-4-N-Propylbenzene	288		mg/kg	38.6	4.83	4
n-Butylbenzene	228		mg/kg	38.6	3.81	4
1,2-Dimethyl-4-Ethylbenzene	508		mg/kg	38.6	4.73	4
1,2-Diethylbenzene	33.7	J	mg/kg	38.6	5.72	4
1-Methyl-2-N-Propylbenzene	347		mg/kg	38.6	4.81	4
1,4-Dimethyl-2-Ethylbenzene	309		mg/kg	38.6	3.61	4
Undecane	7650	E	mg/kg	38.6	4.29	4
1,3-Dimethyl-4-Ethylbenzene	296		mg/kg	38.6	3.75	4
1,3-Dimethyl-5-Ethylbenzene	514		mg/kg	38.6	4.56	4
1,3-Dimethyl-2-Ethylbenzene	ND		mg/kg	38.6	2.88	4
1,2-Dimethyl-3-Ethylbenzene	112		mg/kg	38.6	2.45	4
1,2,4,5-Tetramethylbenzene	270		mg/kg	38.6	3.00	4
N-Pentylbenzene	32.5	J	mg/kg	38.6	4.81	4
Dodecane (C12)	7870	E	mg/kg	96.6	12.7	4
Naphthalene	374		mg/kg	38.6	16.1	4
Benzothiophene	ND		mg/kg	38.6	20.5	4
MMT	ND		mg/kg	96.6	24.9	4
Tridecane	7140	E	mg/kg	96.6	26.8	4
2-Methylnaphthalene	1660		mg/kg	96.6	25.5	4
1-Methylnaphthalene	957		mg/kg	96.6	28.4	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	106		70-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 D2
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 04/16/25 02:57
Analyst: MJS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Decane (C10)	7320		mg/kg	183	24.8	20
Undecane	8300		mg/kg	183	20.3	20
Dodecane (C12)	7990		mg/kg	458	60.2	20
Tridecane	7770		mg/kg	458	127.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 D
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 04/15/25 17:34
Analyst: MJS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isopentane	77.6		mg/kg	45.8	8.39	5
1-Pentene	ND		mg/kg	45.8	8.36	5
2-Methyl-1-Butene	ND		mg/kg	45.8	7.13	5
Pentane	116		mg/kg	45.8	14.3	5
trans-2-Pentene	ND		mg/kg	45.8	6.19	5
cis-2-Pentene	ND		mg/kg	45.8	7.38	5
Tertiary Butanol	ND		mg/kg	573	186.	5
Cyclopentane	19.2	J	mg/kg	45.8	11.9	5
2,3-Dimethylbutane	11.4	J	mg/kg	45.8	18.9	5
2-Methylpentane	85.0		mg/kg	45.8	12.4	5
Methyl tert butyl ether	ND		mg/kg	45.8	9.44	5
3-Methylpentane	55.0		mg/kg	45.8	7.26	5
1-Hexene	ND		mg/kg	45.8	6.44	5
n-Hexane	243		mg/kg	114	7.54	5
Isopropyl Ether	ND		mg/kg	45.8	5.54	5
Ethyl-Tert-Butyl-Ether	ND		mg/kg	45.8	6.94	5
2,2-Dimethylpentane	ND		mg/kg	45.8	6.16	5
Methylcyclopentane	129		mg/kg	45.8	6.14	5
2,4-Dimethylpentane	17.8	J	mg/kg	45.8	5.66	5
1,2-Dichloroethane	ND		mg/kg	45.8	6.76	5
Cyclohexane	180		mg/kg	45.8	5.66	5
2-Methylhexane	137		mg/kg	45.8	10.7	5
Benzene	29.2	J	mg/kg	45.8	6.99	5
2,3-Dimethylpentane	53.2		mg/kg	45.8	6.07	5
Thiophene	ND		mg/kg	45.8	6.51	5
3-Methylhexane	158		mg/kg	45.8	7.33	5
Tertiary-Amyl Methyl Ether	ND		mg/kg	45.8	5.64	5
1-Heptene/1,2-DMCP (trans)	122		mg/kg	91.6	13.4	5

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 D
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isooctane	ND		mg/kg	45.8	5.00	5
Heptane	634		mg/kg	45.8	7.97	5
Methylcyclohexane	617		mg/kg	45.8	6.19	5
2,5-Dimethylhexane	34.1	J	mg/kg	45.8	7.97	5
2,4-Dimethylhexane	55.5		mg/kg	45.8	5.57	5
2,2,3-Trimethylpentane	4.31	J	mg/kg	45.8	7.95	5
2,3,4-Trimethylpentane	15.8	J	mg/kg	45.8	5.98	5
2,3,3-Trimethylpentane	9.21	J	mg/kg	45.8	9.10	5
2,3-Dimethylhexane	48.3		mg/kg	45.8	11.1	5
2-Methylheptane	514		mg/kg	45.8	10.6	5
3-Methylheptane	273		mg/kg	45.8	6.53	5
3-Ethylhexane	35.2	J	mg/kg	45.8	8.20	5
Toluene	512		mg/kg	45.8	6.21	5
2-Methylthiophene	ND		mg/kg	45.8	3.90	5
3-Methylthiophene	ND		mg/kg	45.8	5.36	5
1-Octene	ND		mg/kg	114	7.03	5
Octane	1480		mg/kg	45.8	5.38	5
1,2-Dibromoethane	ND		mg/kg	45.8	7.33	5
Ethylbenzene	204		mg/kg	45.8	4.95	5
2-Ethylthiophene	3.16	J	mg/kg	45.8	5.02	5
p/m-Xylene	1640		mg/kg	91.6	8.73	5
1-Nonene	ND		mg/kg	114	6.19	5
Nonane (C9)	2870		mg/kg	45.8	7.13	5
Styrene	ND		mg/kg	45.8	4.63	5
o-Xylene	695		mg/kg	45.8	4.79	5
Isopropylbenzene	84.8		mg/kg	45.8	7.65	5
n-Propylbenzene	274		mg/kg	45.8	4.06	5
1-Methyl-3-Ethylbenzene	703		mg/kg	45.8	7.24	5
1-Methyl-4-Ethylbenzene	294		mg/kg	45.8	6.46	5
1,3,5-Trimethylbenzene	645		mg/kg	45.8	5.27	5
1-Decene	ND		mg/kg	45.8	5.96	5
1-Methyl-2-Ethylbenzene	226		mg/kg	45.8	3.90	5
Decane (C10)	4860	E	mg/kg	45.8	6.21	5
1,2,4-Trimethylbenzene	2010		mg/kg	45.8	4.74	5
sec-Butylbenzene	121		mg/kg	45.8	5.93	5
1-Methyl-3-Isopropylbenzene	230		mg/kg	45.8	5.91	5
1-Methyl-4-Isopropylbenzene	105		mg/kg	45.8	4.86	5

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 D
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
1-Methyl-2-Isopropylbenzene	35.3	J	mg/kg	45.8	4.97	5
Indane	35.0	J	mg/kg	45.8	2.82	5
1-Methyl-3-N-Propylbenzene	676		mg/kg	45.8	4.63	5
1-Methyl-4-N-Propylbenzene	236		mg/kg	45.8	5.73	5
n-Butylbenzene	188		mg/kg	45.8	4.51	5
1,2-Dimethyl-4-Ethylbenzene	415		mg/kg	45.8	5.61	5
1,2-Diethylbenzene	27.7	J	mg/kg	45.8	6.78	5
1-Methyl-2-N-Propylbenzene	277		mg/kg	45.8	5.70	5
1,4-Dimethyl-2-Ethylbenzene	252		mg/kg	45.8	4.28	5
Undecane	5650	E	mg/kg	45.8	5.09	5
1,3-Dimethyl-4-Ethylbenzene	244		mg/kg	45.8	4.44	5
1,3-Dimethyl-5-Ethylbenzene	428		mg/kg	45.8	5.41	5
1,3-Dimethyl-2-Ethylbenzene	ND		mg/kg	45.8	3.41	5
1,2-Dimethyl-3-Ethylbenzene	93.7		mg/kg	45.8	2.91	5
1,2,4,5-Tetramethylbenzene	225		mg/kg	45.8	3.55	5
N-Pentylbenzene	20.6	J	mg/kg	45.8	5.70	5
Dodecane (C12)	5770	E	mg/kg	114	15.0	5
Naphthalene	333		mg/kg	45.8	19.1	5
Benzothiophene	ND		mg/kg	45.8	24.3	5
MMT	ND		mg/kg	114	29.6	5
Tridecane	5560	E	mg/kg	114	31.8	5
2-Methylnaphthalene	1500		mg/kg	114	30.2	5
1-Methylnaphthalene	847		mg/kg	114	33.7	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	91		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 04/14/25 15:13
Analyst: MJS

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054816-6					
Isopentane	ND		mg/kg	10.0	1.83
1-Pentene	ND		mg/kg	10.0	1.82
2-Methyl-1-Butene	ND		mg/kg	10.0	1.56
Pentane	ND		mg/kg	10.0	3.12
trans-2-Pentene	ND		mg/kg	10.0	1.35
cis-2-Pentene	ND		mg/kg	10.0	1.61
Tertiary Butanol	ND		mg/kg	125	40.5
Cyclopentane	ND		mg/kg	10.0	2.60
2,3-Dimethylbutane	ND		mg/kg	10.0	4.13
2-Methylpentane	ND		mg/kg	10.0	2.71
Methyl tert butyl ether	ND		mg/kg	10.0	2.06
3-Methylpentane	ND		mg/kg	10.0	1.58
1-Hexene	ND		mg/kg	10.0	1.40
n-Hexane	ND		mg/kg	25.0	1.64
Isopropyl Ether	ND		mg/kg	10.0	1.21
Ethyl-Tert-Butyl-Ether	ND		mg/kg	10.0	1.52
2,2-Dimethylpentane	ND		mg/kg	10.0	1.34
Methylcyclopentane	ND		mg/kg	10.0	1.34
2,4-Dimethylpentane	ND		mg/kg	10.0	1.24
1,2-Dichloroethane	ND		mg/kg	10.0	1.48
Cyclohexane	ND		mg/kg	10.0	1.24
2-Methylhexane	ND		mg/kg	10.0	2.33
Benzene	ND		mg/kg	10.0	1.52
2,3-Dimethylpentane	ND		mg/kg	10.0	1.32
Thiophene	ND		mg/kg	10.0	1.42
3-Methylhexane	ND		mg/kg	10.0	1.60
Tertiary-Amyl Methyl Ether	ND		mg/kg	10.0	1.23
1-Heptene/1,2-DMCP (trans)	ND		mg/kg	20.0	2.92
Isooctane	ND		mg/kg	10.0	1.09

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 04/14/25 15:13
Analyst: MJS

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054816-6					
Heptane	ND		mg/kg	10.0	1.74
Methylcyclohexane	ND		mg/kg	10.0	1.35
2,5-Dimethylhexane	ND		mg/kg	10.0	1.74
2,4-Dimethylhexane	ND		mg/kg	10.0	1.22
2,2,3-Trimethylpentane	ND		mg/kg	10.0	1.74
2,3,4-Trimethylpentane	ND		mg/kg	10.0	1.30
2,3,3-Trimethylpentane	ND		mg/kg	10.0	1.98
2,3-Dimethylhexane	ND		mg/kg	10.0	2.42
2-Methylheptane	ND		mg/kg	10.0	2.32
3-Methylheptane	ND		mg/kg	10.0	1.42
3-Ethylhexane	ND		mg/kg	10.0	1.79
Toluene	ND		mg/kg	10.0	1.36
2-Methylthiophene	ND		mg/kg	10.0	0.850
3-Methylthiophene	ND		mg/kg	10.0	1.17
1-Octene	ND		mg/kg	25.0	1.54
Octane	ND		mg/kg	10.0	1.18
1,2-Dibromoethane	ND		mg/kg	10.0	1.60
Ethylbenzene	ND		mg/kg	10.0	1.08
2-Ethylthiophene	ND		mg/kg	10.0	1.10
p/m-Xylene	ND		mg/kg	20.0	1.90
1-Nonene	ND		mg/kg	25.0	1.35
Nonane (C9)	ND		mg/kg	10.0	1.56
Styrene	ND		mg/kg	10.0	1.01
o-Xylene	ND		mg/kg	10.0	1.04
Isopropylbenzene	ND		mg/kg	10.0	1.67
n-Propylbenzene	ND		mg/kg	10.0	0.885
1-Methyl-3-Ethylbenzene	ND		mg/kg	10.0	1.58
1-Methyl-4-Ethylbenzene	ND		mg/kg	10.0	1.41
1,3,5-Trimethylbenzene	ND		mg/kg	10.0	1.15

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 04/14/25 15:13
Analyst: MJS

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054816-6					
1-Decene	ND		mg/kg	10.0	1.30
1-Methyl-2-Ethylbenzene	ND		mg/kg	10.0	0.850
Decane (C10)	ND		mg/kg	10.0	1.36
1,2,4-Trimethylbenzene	ND		mg/kg	10.0	1.04
sec-Butylbenzene	ND		mg/kg	10.0	1.30
1-Methyl-3-Isopropylbenzene	ND		mg/kg	10.0	1.29
1-Methyl-4-Isopropylbenzene	ND		mg/kg	10.0	1.06
1-Methyl-2-Isopropylbenzene	ND		mg/kg	10.0	1.08
Indane	ND		mg/kg	10.0	0.615
1-Methyl-3-N-Propylbenzene	ND		mg/kg	10.0	1.01
1-Methyl-4-N-Propylbenzene	ND		mg/kg	10.0	1.25
n-Butylbenzene	ND		mg/kg	10.0	0.985
1,2-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	1.22
1,2-Diethylbenzene	ND		mg/kg	10.0	1.48
1-Methyl-2-N-Propylbenzene	ND		mg/kg	10.0	1.24
1,4-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.935
Undecane	0.335	J	mg/kg	10.0	1.11
1,3-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	0.970
1,3-Dimethyl-5-Ethylbenzene	ND		mg/kg	10.0	1.18
1,3-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.745
1,2-Dimethyl-3-Ethylbenzene	ND		mg/kg	10.0	0.635
1,2,4,5-Tetramethylbenzene	ND		mg/kg	10.0	0.775
N-Pentylbenzene	ND		mg/kg	10.0	1.24
Dodecane (C12)	ND		mg/kg	25.0	3.28
Naphthalene	0.855	J	mg/kg	10.0	4.18
Benzothiophene	ND		mg/kg	10.0	5.30
MMT	ND		mg/kg	25.0	6.45
Tridecane	ND		mg/kg	25.0	6.95
2-Methylnaphthalene	1.52	J	mg/kg	25.0	6.60

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 04/14/25 15:13
Analyst: MJS

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054816-6					
1-Methylnaphthalene	0.960	J	mg/kg	25.0	7.35

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054816-3 WG2054816-4								
1-Pentene	82		88		50-130	7		30
Pentane	82		88		50-130	7		30
Tertiary Butanol	106		106		50-130	0		30
Cyclopentane	88		92		50-130	4		30
2-Methylpentane	84		87		50-130	4		30
Methyl tert butyl ether	94		97		50-130	3		30
3-Methylpentane	85		86		50-130	1		30
1-Hexene	85		87		50-130	2		30
n-Hexane	81		83		50-130	2		30
Isopropyl Ether	94		96		50-130	2		30
Ethyl-Tert-Butyl-Ether	88		88		50-130	0		30
Methylcyclopentane	87		90		50-130	3		30
2,4-Dimethylpentane	84		87		50-130	4		30
Cyclohexane	87		90		50-130	3		30
2-Methylhexane	87		90		50-130	3		30
Benzene	89		92		50-130	3		30
2,3-Dimethylpentane	89		93		50-130	4		30
3-Methylhexane	82		83		50-130	1		30
Tertiary-Amyl Methyl Ether	82		83		50-130	1		30
Isooctane	87		90		50-130	3		30
Heptane	90		92		50-130	2		30
Methylcyclohexane	80		80		50-130	0		30
2-Methylheptane	83		85		50-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054816-3 WG2054816-4								
3-Methylheptane	87		90		50-130	3		30
Toluene	91		92		50-130	1		30
Octane	87		88		50-130	1		30
Ethylbenzene	85		86		50-130	1		30
p/m-Xylene	92		92		50-130	0		30
Nonane (C9)	73		76		50-130	4		30
o-Xylene	93		93		50-130	0		30
Isopropylbenzene	92		92		50-130	0		30
n-Propylbenzene	93		92		50-130	1		30
1-Methyl-3-Ethylbenzene	91		90		50-130	1		30
1-Methyl-4-Ethylbenzene	98		98		50-130	0		30
1,3,5-Trimethylbenzene	93		91		50-130	2		30
1-Decene	70		70		50-130	0		30
1-Methyl-2-Ethylbenzene	93		93		50-130	0		30
Decane (C10)	86		88		50-130	2		30
1,2,4-Trimethylbenzene	89		89		50-130	0		30
sec-Butylbenzene	97		95		50-130	2		30
1-Methyl-4-N-Propylbenzene	86		85		50-130	1		30
n-Butylbenzene	93		93		50-130	0		30
1,2-Diethylbenzene	94		93		50-130	1		30
Undecane	90		89		50-130	1		30
N-Pentylbenzene	94		94		50-130	0		30
Dodecane (C12)	113		113		50-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054816-3 WG2054816-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Dibromofluoromethane	97		99		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	102		101		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Isopentane	170	166	mg/kg	2		30
1-Pentene	ND	ND	mg/kg	NC		30
2-Methyl-1-Butene	ND	ND	mg/kg	NC		30
Pentane	264	249	mg/kg	6		30
trans-2-Pentene	ND	ND	mg/kg	NC		30
cis-2-Pentene	ND	ND	mg/kg	NC		30
Tertiary Butanol	ND	ND	mg/kg	NC		30
Cyclopentane	40.7	39.8	mg/kg	2		30
2,3-Dimethylbutane	25.0J	24.7J	mg/kg	NC		30
2-Methylpentane	191	185	mg/kg	3		30
Methyl tert butyl ether	ND	ND	mg/kg	NC		30
3-Methylpentane	124	119	mg/kg	4		30
1-Hexene	ND	ND	mg/kg	NC		30
n-Hexane	410	406	mg/kg	1		30
Isopropyl Ether	ND	ND	mg/kg	NC		30
Ethyl-Tert-Butyl-Ether	ND	ND	mg/kg	NC		30
2,2-Dimethylpentane	9.33J	8.49J	mg/kg	NC		30
Methylcyclopentane	248	252	mg/kg	2		30
2,4-Dimethylpentane	35.3J	34.1J	mg/kg	NC		30
1,2-Dichloroethane	ND	ND	mg/kg	NC		30
Cyclohexane	332	331	mg/kg	0		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
2-Methylhexane	246	241	mg/kg	2		30
Benzene	51.9	52.4	mg/kg	1		30
2,3-Dimethylpentane	100	99.6	mg/kg	0		30
Thiophene	ND	ND	mg/kg	NC		30
3-Methylhexane	276	275	mg/kg	0		30
Tertiary-Amyl Methyl Ether	ND	ND	mg/kg	NC		30
1-Heptene/1,2-DMCP (trans)	210	217	mg/kg	3		30
Isooctane	ND	ND	mg/kg	NC		30
Heptane	1050	1030	mg/kg	2		30
Methylcyclohexane	1020	1030	mg/kg	1		30
2,5-Dimethylhexane	53.5	54.5	mg/kg	2		30
2,4-Dimethylhexane	86.7	88.8	mg/kg	2		30
2,2,3-Trimethylpentane	7.46J	7.19J	mg/kg	NC		30
2,3,4-Trimethylpentane	24.0J	25.0J	mg/kg	NC		30
2,3,3-Trimethylpentane	13.3J	12.6J	mg/kg	NC		30
2,3-Dimethylhexane	76.8	77.2	mg/kg	1		30
2-Methylheptane	779	788	mg/kg	1		30
3-Methylheptane	414	402	mg/kg	3		30
3-Ethylhexane	48.7	52.9	mg/kg	8		30
Toluene	733	730	mg/kg	0		30
2-Methylthiophene	ND	ND	mg/kg	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
3-Methylthiophene	ND	ND	mg/kg	NC		30
1-Octene	ND	ND	mg/kg	NC		30
Octane	2170	2100	mg/kg	3		30
1,2-Dibromoethane	ND	ND	mg/kg	NC		30
Ethylbenzene	267	267	mg/kg	0		30
2-Ethylthiophene	2.86J	3.62J	mg/kg	NC		30
p/m-Xylene	2130	2120	mg/kg	0		30
1-Nonene	ND	ND	mg/kg	NC		30
Nonane (C9)	4010E	3760E	mg/kg	6		30
Styrene	ND	ND	mg/kg	NC		30
o-Xylene	904	906	mg/kg	0		30
Isopropylbenzene	111	110	mg/kg	1		30
n-Propylbenzene	349	348	mg/kg	0		30
1-Methyl-3-Ethylbenzene	886	877	mg/kg	1		30
1-Methyl-4-Ethylbenzene	362	361	mg/kg	0		30
1,3,5-Trimethylbenzene	808	807	mg/kg	0		30
1-Decene	ND	ND	mg/kg	NC		30
1-Methyl-2-Ethylbenzene	289	285	mg/kg	1		30
Decane (C10)	6610E	5810E	mg/kg	13		30
1,2,4-Trimethylbenzene	2510	2470	mg/kg	2		30
sec-Butylbenzene	156	151	mg/kg	3		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
1-Methyl-3-Isopropylbenzene	281	284	mg/kg	1		30
1-Methyl-4-Isopropylbenzene	132	129	mg/kg	2		30
1-Methyl-2-Isopropylbenzene	42.9	41.7	mg/kg	3		30
Indane	43.2	41.3	mg/kg	4		30
1-Methyl-3-N-Propylbenzene	830	795	mg/kg	4		30
1-Methyl-4-N-Propylbenzene	288	274	mg/kg	5		30
n-Butylbenzene	228	218	mg/kg	4		30
1,2-Dimethyl-4-Ethylbenzene	508	490	mg/kg	4		30
1,2-Diethylbenzene	33.7J	35.7J	mg/kg	NC		30
1-Methyl-2-N-Propylbenzene	347	335	mg/kg	4		30
1,4-Dimethyl-2-Ethylbenzene	309	296	mg/kg	4		30
Undecane	7650E	6420E	mg/kg	17		30
1,3-Dimethyl-4-Ethylbenzene	296	286	mg/kg	3		30
1,3-Dimethyl-5-Ethylbenzene	514	500	mg/kg	3		30
1,3-Dimethyl-2-Ethylbenzene	ND	ND	mg/kg	NC		30
1,2-Dimethyl-3-Ethylbenzene	112	108	mg/kg	4		30
1,2,4,5-Tetramethylbenzene	270	267	mg/kg	1		30
N-Pentylbenzene	32.5J	26.7J	mg/kg	NC		30
Dodecane (C12)	7870E	6370E	mg/kg	21		30
Naphthalene	374	366	mg/kg	2		30
Benzothiophene	ND	ND	mg/kg	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
MMT	ND	ND	mg/kg	NC		30
Tridecane	7140E	6020E	mg/kg	17		30
2-Methylnaphthalene	1660	1580	mg/kg	5		30
1-Methylnaphthalene	957	903	mg/kg	6		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	85		87		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	106		104		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054816-7 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Nonane (C9)	3760	3880	mg/kg	3		30
Decane (C10)	6900	7260	mg/kg	5		30
Undecane	7350	7950	mg/kg	8		30
Dodecane (C12)	6780	7460	mg/kg	10		30
Tridecane	6400	7150	mg/kg	11		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	86		87		70-130
Toluene-d8	93		96		70-130
4-Bromofluorobenzene	103		104		70-130

SEMIVOLATILES

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01
Client ID: GACO0408SC001
Sample Location: Not Specified

Date Collected: 04/08/25 13:51
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 18:17
Analyst: CNC
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
Cis/Trans-Decalin	390		mg/kg	0.946	0.713	1
C1-Decalins	657		mg/kg	1.89	0.713	1
C2-Decalins	767		mg/kg	1.89	0.713	1
C3-Decalins	466		mg/kg	1.89	0.713	1
C4-Decalins	490		mg/kg	1.89	0.713	1
Naphthalene	338		mg/kg	1.89	0.816	1
C1-Naphthalenes	1350		mg/kg	1.89	0.816	1
C2-Naphthalenes	1850		mg/kg	1.89	0.816	1
C3-Naphthalenes	1020		mg/kg	1.89	0.816	1
C4-Naphthalenes	356		mg/kg	1.89	0.816	1
2-Methylnaphthalene	1380		mg/kg	1.89	0.732	1
1-Methylnaphthalene	813		mg/kg	1.89	0.894	1
Benzothiophene	4.77		mg/kg	1.89	0.889	1
C1-Benzo(b)thiophenes	18.3		mg/kg	1.89	0.889	1
C2-Benzo(b)thiophenes	8.79		mg/kg	1.89	0.889	1
C3-Benzo(b)thiophenes	ND		mg/kg	1.89	0.889	1
C4-Benzo(b)thiophenes	ND		mg/kg	1.89	0.889	1
Biphenyl	336		mg/kg	1.89	0.877	1
2,6-Dimethylnaphthalene	1230		mg/kg	1.89	0.674	1
Dibenzofuran	8.74		mg/kg	1.89	0.894	1
Acenaphthylene	5.97		mg/kg	1.89	0.542	1
Acenaphthene	43.8	G	mg/kg	1.89	0.500	1
2,3,5-Trimethylnaphthalene	185		mg/kg	1.89	0.464	1
Fluorene	116		mg/kg	1.89	0.757	1
C1-Fluorenes	295		mg/kg	1.89	0.757	1
C2-Fluorenes	417		mg/kg	1.89	0.757	1
C3-Fluorenes	296		mg/kg	1.89	0.757	1
Dibenzothiophene	21.8		mg/kg	1.89	0.782	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 Date Collected: 04/08/25 13:51

Client ID: GACO0408SC001 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	97.0		mg/kg	1.89	0.782	1
2/3-Methyldibenzothiophene(2MDT)	14.9		mg/kg	1.89	0.782	1
1-Methyldibenzothiophene(1MDT)	3.06		mg/kg	1.89	0.782	1
C1-Dibenzothiophenes	123		mg/kg	1.89	0.782	1
C2-Dibenzothiophenes	277		mg/kg	1.89	0.782	1
C3-Dibenzothiophenes	190		mg/kg	1.89	0.782	1
C4-Dibenzothiophenes	76.6		mg/kg	1.89	0.782	1
Phenanthrene	163		mg/kg	1.89	0.940	1
3-Methylphenanthrene (3MP)	114		mg/kg	1.89	0.940	1
2-Methylphenanthrene (2MP)	135		mg/kg	1.89	0.940	1
2-Methylanthracene (2MA)	2.73		mg/kg	1.89	0.940	1
9/4-Methylphenanthrene (9MP)	123		mg/kg	1.89	0.940	1
1-Methylphenanthrene (1MP)	93.1		mg/kg	1.89	0.940	1
C1-Phenanthrenes/Anthracenes	475		mg/kg	1.89	0.940	1
C2-Phenanthrenes/Anthracenes	541		mg/kg	1.89	0.940	1
C3-Phenanthrenes/Anthracenes	267		mg/kg	1.89	0.940	1
C4-Phenanthrenes/Anthracenes	103		mg/kg	1.89	0.940	1
Retene	ND		mg/kg	1.89	0.696	1
Anthracene	6.07		mg/kg	1.89	0.585	1
Carbazole	6.83		mg/kg	1.89	0.928	1
Fluoranthene	ND		mg/kg	1.89	0.902	1
Benzo(b)fluorene	3.77		mg/kg	1.89	0.822	1
Pyrene	8.48		mg/kg	1.89	0.746	1
C1-Fluoranthenes/Pyrenes	45.5		mg/kg	1.89	0.746	1
C2-Fluoranthenes/Pyrenes	62.3		mg/kg	1.89	0.746	1
C3-Fluoranthenes/Pyrenes	83.2		mg/kg	1.89	0.746	1
C4-Fluoranthenes/Pyrenes	74.4		mg/kg	1.89	0.746	1
Naphthobenzothiophene	6.71		mg/kg	1.89	0.794	1
C1-Naphthobenzothiophenes	36.4		mg/kg	1.89	0.794	1
C2-Naphthobenzothiophenes	67.8		mg/kg	1.89	0.794	1
C3-Naphthobenzothiophenes	48.8		mg/kg	1.89	0.794	1
C4-Naphthobenzothiophenes	32.5		mg/kg	1.89	0.794	1
Benz(a)anthracene	1.43	J	mg/kg	1.89	0.579	1
Chrysene/Triphenylene	28.3		mg/kg	1.89	0.574	1
C1-Chrysenes	80.3		mg/kg	1.89	0.574	1
C2-Chrysenes	103		mg/kg	1.89	0.574	1
C3-Chrysenes	81.6		mg/kg	1.89	0.384	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 Date Collected: 04/08/25 13:51

Client ID: GACO0408SC001 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
C4-Chrysenes	52.7		mg/kg	1.89	0.574	1
Benzo(b)fluoranthene	1.37	J	mg/kg	1.89	0.738	1
Benzo(j)+(k)Fluoranthene	ND		mg/kg	1.89	0.563	1
Benzo(a)fluoranthene	ND		mg/kg	1.89	0.563	1
Benzo(e)Pyrene	6.01		mg/kg	1.89	0.586	1
Benzo(a)pyrene	2.79		mg/kg	1.89	0.810	1
Perylene	2.25		mg/kg	1.89	0.548	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	1.89	0.770	1
Dibenz(a,h)+(a,c)anthracene	0.861	J	mg/kg	1.89	0.767	1
Benzo(ghi)perylene	0.461	J	mg/kg	1.89	0.754	1
Hopane (T19)	ND		mg/kg	1.89	0.808	1
C23 Tricyclic Terpane (T4)	ND		mg/kg	1.89	0.808	1
C24 Tricyclic Terpane (T5)	ND		mg/kg	1.89	0.808	1
C25 Tricyclic Terpane (T6)	ND		mg/kg	1.89	0.808	1
C24 Tetracyclic Terpane (T6a)	ND		mg/kg	1.89	0.808	1
C26 Tricyclic Terpane-22S (T6b)	ND		mg/kg	1.89	0.808	1
C26 Tricyclic Terpane-22R (T6c)	ND		mg/kg	1.89	0.808	1
C28 Tricyclic Terpane-22S (T7)	ND		mg/kg	1.89	0.808	1
C28 Tricyclic Terpane-22R (T8)	ND		mg/kg	1.89	0.808	1
C29 Tricyclic Terpane-22S (T9)	ND		mg/kg	1.89	0.808	1
C29 Tricyclic Terpane-22R (T10)	ND		mg/kg	1.89	0.808	1
18a-22,29,30-Trisnorneohopane-TS (T11)	ND		mg/kg	1.89	0.808	1
C30 Tricyclic Terpane-22S	ND		mg/kg	1.89	0.808	1
C30 Tricyclic Terpane-22R	ND		mg/kg	1.89	0.808	1
17a(H)-22,29,30-Trisnorhopane-TM (T12)	ND		mg/kg	1.89	0.808	1
17a/b,21b/a 28,30-Bisnorhopane (T14a)	ND		mg/kg	1.89	0.808	1
17a(H),21b(H)-25-Norhopane (T14b)	ND		mg/kg	1.89	0.808	1
30-Norhopane (T15)	ND		mg/kg	1.89	0.808	1
18a(H)-30-Norneohopane-C29Ts (T16)	ND		mg/kg	1.89	0.808	1
17a(H)-Diahopane (X)	ND		mg/kg	1.89	0.808	1
30-Normoretane (T17)	ND		mg/kg	1.89	0.808	1
18a(H)&18b(H)-Oleananes (T18)	ND		mg/kg	1.89	0.808	1
Moretane (T20)	ND		mg/kg	1.89	0.808	1
30-Homohopane-22S (T21)	ND		mg/kg	1.89	0.808	1
30-Homohopane-22R (T22)	ND		mg/kg	1.89	0.808	1
Gammacerane/C32-Diahopane	ND		mg/kg	1.89	0.808	1
30,31-Bishomohopane-22S (T26)	ND		mg/kg	1.89	0.808	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 Date Collected: 04/08/25 13:51

Client ID: GACO0408SC001 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
30,31-Bishomohopane-22R (T27)	ND		mg/kg	1.89	0.808	1
30,31-Trishomohopane-22S (T30)	ND		mg/kg	1.89	0.808	1
30,31-Trishomohopane-22R (T31)	ND		mg/kg	1.89	0.808	1
Tetrakishomohopane-22S (T32)	ND		mg/kg	1.89	0.808	1
Tetrakishomohopane-22R (T33)	ND		mg/kg	1.89	0.808	1
Pentakishomohopane-22S (T34)	ND		mg/kg	1.89	0.808	1
Pentakishomohopane-22R (T35)	ND		mg/kg	1.89	0.808	1
13b(H),17a(H)-20S-Diacholestane (S4)	27.2		mg/kg	1.89	0.630	1
13b(H),17a(H)-20R-Diacholestane (S5)	17.0		mg/kg	1.89	0.630	1
13b,17a-20S-Methyldiacholestane (S8)	19.3		mg/kg	1.89	0.630	1
17a(H)20SC27/C29dia	21.1		mg/kg	1.89	0.630	1
17a(H)20rc27/C29dia	15.8		mg/kg	1.89	0.630	1
Unknown Sterane (S18)	ND		mg/kg	1.89	0.630	1
13a,17b-20S-Ethyldiacholestane (S19)	ND		mg/kg	1.89	0.630	1
14a,17a-20S-Methylcholestane (S20)	7.80		mg/kg	1.89	0.630	1
14a,17a-20R-Methylcholestane (S24)	ND		mg/kg	1.89	0.630	1
14a(H),17a(H)-20S-Ethylcholestane (S25)	ND		mg/kg	1.89	0.630	1
14a(H),17a(H)-20R-Ethylcholestane (S28)	ND		mg/kg	1.89	0.630	1
14b(H),17b(H)-20R-Cholestane (S14)	5.56		mg/kg	1.89	0.630	1
14b(H),17b(H)-20S-Cholestane (S15)	5.63		mg/kg	1.89	0.630	1
14b,17b-20R-Methylcholestane (S22)	5.54		mg/kg	1.89	0.630	1
14b,17b-20S-Methylcholestane (S23)	5.34		mg/kg	1.89	0.630	1
14b(H),17b(H)-20R-Ethylcholestane (S26)	5.88		mg/kg	1.89	0.630	1
14b(H),17b(H)-20S-Ethylcholestane (S27)	4.60		mg/kg	1.89	0.630	1
C26,20R+C27,20S TAS	ND		mg/kg	1.89	0.630	1
C28,20S TAS	ND		mg/kg	1.89	0.630	1
C27,20R TAS	ND		mg/kg	1.89	0.630	1
C28,20R TAS	ND		mg/kg	1.89	0.630	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	97		50-130
Phenanthrene-d10	98		50-130
Benzo(a)pyrene-d12	111		50-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 21:06
Analyst: CNC
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
Cis/Trans-Decalin	338		mg/kg	0.733	0.552	1
C1-Decalins	597		mg/kg	1.46	0.552	1
C2-Decalins	703		mg/kg	1.46	0.552	1
C3-Decalins	440		mg/kg	1.46	0.552	1
C4-Decalins	479		mg/kg	1.46	0.552	1
Naphthalene	315		mg/kg	1.46	0.632	1
C1-Naphthalenes	1300		mg/kg	1.46	0.632	1
C2-Naphthalenes	1830		mg/kg	1.46	0.632	1
C3-Naphthalenes	1010		mg/kg	1.46	0.632	1
C4-Naphthalenes	355		mg/kg	1.46	0.632	1
2-Methylnaphthalene	1340		mg/kg	1.46	0.567	1
1-Methylnaphthalene	784		mg/kg	1.46	0.692	1
Benzothiophene	5.05		mg/kg	1.46	0.688	1
C1-Benzo(b)thiophenes	18.5		mg/kg	1.46	0.688	1
C2-Benzo(b)thiophenes	8.89		mg/kg	1.46	0.688	1
C3-Benzo(b)thiophenes	ND		mg/kg	1.46	0.688	1
C4-Benzo(b)thiophenes	ND		mg/kg	1.46	0.688	1
Biphenyl	324		mg/kg	1.46	0.679	1
2,6-Dimethylnaphthalene	1220		mg/kg	1.46	0.522	1
Dibenzofuran	7.99		mg/kg	1.46	0.692	1
Acenaphthylene	5.78		mg/kg	1.46	0.419	1
Acenaphthene	45.1	G	mg/kg	1.46	0.387	1
2,3,5-Trimethylnaphthalene	170		mg/kg	1.46	0.359	1
Fluorene	118		mg/kg	1.46	0.586	1
C1-Fluorenes	297		mg/kg	1.46	0.586	1
C2-Fluorenes	419		mg/kg	1.46	0.586	1
C3-Fluorenes	291		mg/kg	1.46	0.586	1
Dibenzothiophene	22.1		mg/kg	1.46	0.606	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 Date Collected: 04/08/25 13:53

Client ID: GACO0408SC002 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	97.0		mg/kg	1.46	0.606	1
2/3-Methyldibenzothiophene(2MDT)	17.2		mg/kg	1.46	0.606	1
1-Methyldibenzothiophene(1MDT)	2.84		mg/kg	1.46	0.606	1
C1-Dibenzothiophenes	120		mg/kg	1.46	0.606	1
C2-Dibenzothiophenes	277		mg/kg	1.46	0.606	1
C3-Dibenzothiophenes	190		mg/kg	1.46	0.606	1
C4-Dibenzothiophenes	75.6		mg/kg	1.46	0.606	1
Phenanthrene	163		mg/kg	1.46	0.728	1
3-Methylphenanthrene (3MP)	115		mg/kg	1.46	0.728	1
2-Methylphenanthrene (2MP)	134		mg/kg	1.46	0.728	1
2-Methylanthracene (2MA)	2.43		mg/kg	1.46	0.728	1
9/4-Methylphenanthrene (9MP)	123		mg/kg	1.46	0.728	1
1-Methylphenanthrene (1MP)	92.4		mg/kg	1.46	0.728	1
C1-Phenanthrenes/Anthracenes	477		mg/kg	1.46	0.728	1
C2-Phenanthrenes/Anthracenes	535		mg/kg	1.46	0.728	1
C3-Phenanthrenes/Anthracenes	265		mg/kg	1.46	0.728	1
C4-Phenanthrenes/Anthracenes	101		mg/kg	1.46	0.728	1
Retene	ND		mg/kg	1.46	0.539	1
Anthracene	5.78		mg/kg	1.46	0.453	1
Carbazole	5.83		mg/kg	1.46	0.719	1
Fluoranthene	ND		mg/kg	1.46	0.698	1
Benzo(b)fluorene	3.78		mg/kg	1.46	0.637	1
Pyrene	8.42		mg/kg	1.46	0.578	1
C1-Fluoranthenes/Pyrenes	44.2		mg/kg	1.46	0.578	1
C2-Fluoranthenes/Pyrenes	60.1		mg/kg	1.46	0.578	1
C3-Fluoranthenes/Pyrenes	81.2		mg/kg	1.46	0.578	1
C4-Fluoranthenes/Pyrenes	73.6		mg/kg	1.46	0.578	1
Naphthobenzothiophene	7.26		mg/kg	1.46	0.615	1
C1-Naphthobenzothiophenes	36.6		mg/kg	1.46	0.615	1
C2-Naphthobenzothiophenes	66.3		mg/kg	1.46	0.615	1
C3-Naphthobenzothiophenes	51.1		mg/kg	1.46	0.615	1
C4-Naphthobenzothiophenes	32.2		mg/kg	1.46	0.615	1
Benz(a)anthracene	1.10	J	mg/kg	1.46	0.448	1
Chrysene/Triphenylene	27.9		mg/kg	1.46	0.444	1
C1-Chrysenes	81.3		mg/kg	1.46	0.444	1
C2-Chrysenes	101		mg/kg	1.46	0.444	1
C3-Chrysenes	92.0		mg/kg	1.46	0.298	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 Date Collected: 04/08/25 13:53

Client ID: GACO0408SC002 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
C4-Chrysenes	58.8		mg/kg	1.46	0.444	1
Benzo(b)fluoranthene	1.41	J	mg/kg	1.46	0.572	1
Benzo(j)+(k)Fluoranthene	ND		mg/kg	1.46	0.436	1
Benzo(a)fluoranthene	ND		mg/kg	1.46	0.436	1
Benzo(e)Pyrene	6.59		mg/kg	1.46	0.453	1
Benzo(a)pyrene	2.67		mg/kg	1.46	0.627	1
Perylene	1.73		mg/kg	1.46	0.424	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	1.46	0.596	1
Dibenz(a,h)+(a,c)anthracene	ND		mg/kg	1.46	0.594	1
Benzo(ghi)perylene	ND		mg/kg	1.46	0.584	1
Hopane (T19)	ND		mg/kg	1.46	0.625	1
C23 Tricyclic Terpane (T4)	ND		mg/kg	1.46	0.625	1
C24 Tricyclic Terpane (T5)	ND		mg/kg	1.46	0.625	1
C25 Tricyclic Terpane (T6)	ND		mg/kg	1.46	0.625	1
C24 Tetracyclic Terpane (T6a)	ND		mg/kg	1.46	0.625	1
C26 Tricyclic Terpane-22S (T6b)	ND		mg/kg	1.46	0.625	1
C26 Tricyclic Terpane-22R (T6c)	ND		mg/kg	1.46	0.625	1
C28 Tricyclic Terpane-22S (T7)	ND		mg/kg	1.46	0.625	1
C28 Tricyclic Terpane-22R (T8)	ND		mg/kg	1.46	0.625	1
C29 Tricyclic Terpane-22S (T9)	ND		mg/kg	1.46	0.625	1
C29 Tricyclic Terpane-22R (T10)	ND		mg/kg	1.46	0.625	1
18a-22,29,30-Trisnorneohopane-TS (T11)	ND		mg/kg	1.46	0.625	1
C30 Tricyclic Terpane-22S	ND		mg/kg	1.46	0.625	1
C30 Tricyclic Terpane-22R	ND		mg/kg	1.46	0.625	1
17a(H)-22,29,30-Trisnorhopane-TM (T12)	ND		mg/kg	1.46	0.625	1
17a/b,21b/a 28,30-Bisnorhopane (T14a)	ND		mg/kg	1.46	0.625	1
17a(H),21b(H)-25-Norhopane (T14b)	ND		mg/kg	1.46	0.625	1
30-Norhopane (T15)	ND		mg/kg	1.46	0.625	1
18a(H)-30-Norneohopane-C29Ts (T16)	ND		mg/kg	1.46	0.625	1
17a(H)-Diahopane (X)	ND		mg/kg	1.46	0.625	1
30-Normoretane (T17)	ND		mg/kg	1.46	0.625	1
18a(H)&18b(H)-Oleananes (T18)	ND		mg/kg	1.46	0.625	1
Moretane (T20)	ND		mg/kg	1.46	0.625	1
30-Homohopane-22S (T21)	ND		mg/kg	1.46	0.625	1
30-Homohopane-22R (T22)	ND		mg/kg	1.46	0.625	1
Gammacerane/C32-Diahopane	ND		mg/kg	1.46	0.625	1
30,31-Bishomohopane-22S (T26)	ND		mg/kg	1.46	0.625	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 Date Collected: 04/08/25 13:53

Client ID: GACO0408SC002 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab						
30,31-Bishomohopane-22R (T27)	ND		mg/kg	1.46	0.625	1
30,31-Trishomohopane-22S (T30)	ND		mg/kg	1.46	0.625	1
30,31-Trishomohopane-22R (T31)	ND		mg/kg	1.46	0.625	1
Tetrakishomohopane-22S (T32)	ND		mg/kg	1.46	0.625	1
Tetrakishomohopane-22R (T33)	ND		mg/kg	1.46	0.625	1
Pentakishomohopane-22S (T34)	ND		mg/kg	1.46	0.625	1
Pentakishomohopane-22R (T35)	ND		mg/kg	1.46	0.625	1
13b(H),17a(H)-20S-Diacholestane (S4)	31.4		mg/kg	1.46	0.488	1
13b(H),17a(H)-20R-Diacholestane (S5)	17.9		mg/kg	1.46	0.488	1
13b,17a-20S-Methyldiacholestane (S8)	21.6		mg/kg	1.46	0.488	1
17a(H)20SC27/C29dia	18.6		mg/kg	1.46	0.488	1
17a(H)20rc27/C29dia	17.1		mg/kg	1.46	0.488	1
Unknown Sterane (S18)	11.0		mg/kg	1.46	0.488	1
13a,17b-20S-Ethyldiacholestane (S19)	ND		mg/kg	1.46	0.488	1
14a,17a-20S-Methylcholestane (S20)	6.40		mg/kg	1.46	0.488	1
14a,17a-20R-Methylcholestane (S24)	ND		mg/kg	1.46	0.488	1
14a(H),17a(H)-20S-Ethylcholestane (S25)	ND		mg/kg	1.46	0.488	1
14a(H),17a(H)-20R-Ethylcholestane (S28)	ND		mg/kg	1.46	0.488	1
14b(H),17b(H)-20R-Cholestane (S14)	3.99		mg/kg	1.46	0.488	1
14b(H),17b(H)-20S-Cholestane (S15)	5.74		mg/kg	1.46	0.488	1
14b,17b-20R-Methylcholestane (S22)	5.49		mg/kg	1.46	0.488	1
14b,17b-20S-Methylcholestane (S23)	7.11		mg/kg	1.46	0.488	1
14b(H),17b(H)-20R-Ethylcholestane (S26)	4.25		mg/kg	1.46	0.488	1
14b(H),17b(H)-20S-Ethylcholestane (S27)	5.12		mg/kg	1.46	0.488	1
C26,20R+C27,20S TAS	ND		mg/kg	1.46	0.488	1
C28,20S TAS	ND		mg/kg	1.46	0.488	1
C27,20R TAS	ND		mg/kg	1.46	0.488	1
C28,20R TAS	ND		mg/kg	1.46	0.488	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	94		50-130
Phenanthrene-d10	95		50-130
Benzo(a)pyrene-d12	110		50-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 14:04
Analyst: CNC

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
Cis/Trans-Decalin	ND		mg/kg	0.826	0.622
C1-Decalins	ND		mg/kg	1.65	0.622
C2-Decalins	ND		mg/kg	1.65	0.622
C3-Decalins	ND		mg/kg	1.65	0.622
C4-Decalins	ND		mg/kg	1.65	0.622
Naphthalene	ND		mg/kg	1.65	0.712
C1-Naphthalenes	ND		mg/kg	1.65	0.712
C2-Naphthalenes	ND		mg/kg	1.65	0.712
C3-Naphthalenes	ND		mg/kg	1.65	0.712
C4-Naphthalenes	ND		mg/kg	1.65	0.712
2-Methylnaphthalene	ND		mg/kg	1.65	0.639
1-Methylnaphthalene	ND		mg/kg	1.65	0.780
Benzothiophene	ND		mg/kg	1.65	0.776
C1-Benzo(b)thiophenes	ND		mg/kg	1.65	0.776
C2-Benzo(b)thiophenes	ND		mg/kg	1.65	0.776
C3-Benzo(b)thiophenes	ND		mg/kg	1.65	0.776
C4-Benzo(b)thiophenes	ND		mg/kg	1.65	0.776
Biphenyl	ND		mg/kg	1.65	0.765
2,6-Dimethylnaphthalene	ND		mg/kg	1.65	0.589
Dibenzofuran	ND		mg/kg	1.65	0.780
Acenaphthylene	ND		mg/kg	1.65	0.473
Acenaphthene	ND		mg/kg	1.65	0.437
2,3,5-Trimethylnaphthalene	ND		mg/kg	1.65	0.405
Fluorene	ND		mg/kg	1.65	0.661
C1-Fluorenes	ND		mg/kg	1.65	0.661
C2-Fluorenes	ND		mg/kg	1.65	0.661
C3-Fluorenes	ND		mg/kg	1.65	0.661
Dibenzothiophene	ND		mg/kg	1.65	0.683
4-Methyldibenzothiophene(4MDT)	ND		mg/kg	1.65	0.683

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 14:04
Analyst: CNC

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
2/3-Methyldibenzothiophene(2MDT)	ND		mg/kg	1.65	0.683
1-Methyldibenzothiophene(1MDT)	0.244	J	mg/kg	1.65	0.683
C1-Dibenzothiophenes	0.813	J	mg/kg	1.65	0.683
C2-Dibenzothiophenes	ND		mg/kg	1.65	0.683
C3-Dibenzothiophenes	ND		mg/kg	1.65	0.683
C4-Dibenzothiophenes	ND		mg/kg	1.65	0.683
Phenanthrene	ND		mg/kg	1.65	0.821
3-Methylphenanthrene (3MP)	ND		mg/kg	1.65	0.821
2-Methylphenanthrene (2MP)	ND		mg/kg	1.65	0.821
2-Methylanthracene (2MA)	ND		mg/kg	1.65	0.821
9/4-Methylphenanthrene (9MP)	ND		mg/kg	1.65	0.821
1-Methylphenanthrene (1MP)	ND		mg/kg	1.65	0.821
C1-Phenanthrenes/Anthracenes	ND		mg/kg	1.65	0.821
C2-Phenanthrenes/Anthracenes	ND		mg/kg	1.65	0.821
C3-Phenanthrenes/Anthracenes	ND		mg/kg	1.65	0.821
C4-Phenanthrenes/Anthracenes	ND		mg/kg	1.65	0.821
Retene	ND		mg/kg	1.65	0.608
Anthracene	ND		mg/kg	1.65	0.511
Carbazole	ND		mg/kg	1.65	0.810
Fluoranthene	ND		mg/kg	1.65	0.787
Benzo(b)fluorene	ND		mg/kg	1.65	0.718
Pyrene	ND		mg/kg	1.65	0.652
C1-Fluoranthenes/Pyrenes	ND		mg/kg	1.65	0.652
C2-Fluoranthenes/Pyrenes	ND		mg/kg	1.65	0.652
C3-Fluoranthenes/Pyrenes	ND		mg/kg	1.65	0.652
C4-Fluoranthenes/Pyrenes	ND		mg/kg	1.65	0.652
Naphthobenzothiophene	ND		mg/kg	1.65	0.693
C1-Naphthobenzothiophenes	ND		mg/kg	1.65	0.693
C2-Naphthobenzothiophenes	ND		mg/kg	1.65	0.693

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 14:04
Analyst: CNC

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
C3-Naphthobenzothiophenes	ND		mg/kg	1.65	0.693
C4-Naphthobenzothiophenes	ND		mg/kg	1.65	0.693
Benz(a)anthracene	ND		mg/kg	1.65	0.505
Chrysene/Triphenylene	ND		mg/kg	1.65	0.501
C1-Chrysenes	ND		mg/kg	1.65	0.501
C2-Chrysenes	ND		mg/kg	1.65	0.501
C3-Chrysenes	ND		mg/kg	1.65	0.336
C4-Chrysenes	ND		mg/kg	1.65	0.501
Benzo(b)fluoranthene	ND		mg/kg	1.65	0.644
Benzo(j)+(k)Fluoranthene	ND		mg/kg	1.65	0.492
Benzo(a)fluoranthene	ND		mg/kg	1.65	0.492
Benzo(e)Pyrene	ND		mg/kg	1.65	0.511
Benzo(a)pyrene	ND		mg/kg	1.65	0.707
Perylene	ND		mg/kg	1.65	0.478
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	1.65	0.672
Dibenz(a,h)+(a,c)anthracene	ND		mg/kg	1.65	0.669
Benzo(ghi)perylene	ND		mg/kg	1.65	0.658
Hopane (T19)	ND		mg/kg	1.65	0.705
C23 Tricyclic Terpane (T4)	ND		mg/kg	1.65	0.705
C24 Tricyclic Terpane (T5)	ND		mg/kg	1.65	0.705
C25 Tricyclic Terpane (T6)	ND		mg/kg	1.65	0.705
C24 Tetracyclic Terpane (T6a)	ND		mg/kg	1.65	0.705
C26 Tricyclic Terpane-22S (T6b)	ND		mg/kg	1.65	0.705
C26 Tricyclic Terpane-22R (T6c)	ND		mg/kg	1.65	0.705
C28 Tricyclic Terpane-22S (T7)	ND		mg/kg	1.65	0.705
C28 Tricyclic Terpane-22R (T8)	ND		mg/kg	1.65	0.705
C29 Tricyclic Terpane-22S (T9)	ND		mg/kg	1.65	0.705
C29 Tricyclic Terpane-22R (T10)	ND		mg/kg	1.65	0.705
18a-22,29,30-Trisnorneohopane-TS (T11)	ND		mg/kg	1.65	0.705

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 14:04
Analyst: CNC

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
C30 Tricyclic Terpane-22S	ND		mg/kg	1.65	0.705
C30 Tricyclic Terpane-22R	ND		mg/kg	1.65	0.705
17a(H)-22,29,30-Trisnorhopane-TM (T12)	ND		mg/kg	1.65	0.705
17a/b,21b/a 28,30-Bisnorhopane (T14a)	ND		mg/kg	1.65	0.705
17a(H),21b(H)-25-Norhopane (T14b)	ND		mg/kg	1.65	0.705
30-Norhopane (T15)	ND		mg/kg	1.65	0.705
18a(H)-30-Norneohopane-C29Ts (T16)	ND		mg/kg	1.65	0.705
17a(H)-Diahopane (X)	ND		mg/kg	1.65	0.705
30-Normoretane (T17)	ND		mg/kg	1.65	0.705
18a(H)&18b(H)-Oleananes (T18)	ND		mg/kg	1.65	0.705
Moretane (T20)	ND		mg/kg	1.65	0.705
30-Homohopane-22S (T21)	ND		mg/kg	1.65	0.705
30-Homohopane-22R (T22)	ND		mg/kg	1.65	0.705
Gammacerane/C32-Diahopane	ND		mg/kg	1.65	0.705
30,31-Bishomohopane-22S (T26)	ND		mg/kg	1.65	0.705
30,31-Bishomohopane-22R (T27)	ND		mg/kg	1.65	0.705
30,31-Trishomohopane-22S (T30)	ND		mg/kg	1.65	0.705
30,31-Trishomohopane-22R (T31)	ND		mg/kg	1.65	0.705
Tetrakishomohopane-22S (T32)	ND		mg/kg	1.65	0.705
Tetrakishomohopane-22R (T33)	ND		mg/kg	1.65	0.705
Pentakishomohopane-22S (T34)	ND		mg/kg	1.65	0.705
Pentakishomohopane-22R (T35)	ND		mg/kg	1.65	0.705
13b(H),17a(H)-20S-Diacholestane (S4)	ND		mg/kg	1.65	0.550
13b(H),17a(H)-20R-Diacholestane (S5)	ND		mg/kg	1.65	0.550
13b,17a-20S-Methyldiacholestane (S8)	ND		mg/kg	1.65	0.550
17a(H)20SC27/C29dia	ND		mg/kg	1.65	0.550
17a(H)20rc27/C29dia	ND		mg/kg	1.65	0.550
Unknown Sterane (S18)	ND		mg/kg	1.65	0.550
13a,17b-20S-Ethyldiacholestane (S19)	ND		mg/kg	1.65	0.550

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM(M)
Analytical Date: 04/16/25 14:04
Analyst: CNC

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
14a,17a-20S-Methylcholestane (S20)	ND		mg/kg	1.65	0.550
14a,17a-20R-Methylcholestane (S24)	ND		mg/kg	1.65	0.550
14a(H),17a(H)-20S-Ethylcholestane (S25)	ND		mg/kg	1.65	0.550
14a(H),17a(H)-20R-Ethylcholestane (S28)	ND		mg/kg	1.65	0.550
14b(H),17b(H)-20R-Cholestane (S14)	ND		mg/kg	1.65	0.550
14b(H),17b(H)-20S-Cholestane (S15)	ND		mg/kg	1.65	0.550
14b,17b-20R-Methylcholestane (S22)	ND		mg/kg	1.65	0.550
14b,17b-20S-Methylcholestane (S23)	ND		mg/kg	1.65	0.550
14b(H),17b(H)-20R-Ethylcholestane (S26)	ND		mg/kg	1.65	0.550
14b(H),17b(H)-20S-Ethylcholestane (S27)	ND		mg/kg	1.65	0.550
C26,20R+C27,20S TAS	ND		mg/kg	1.65	0.550
C28,20S TAS	ND		mg/kg	1.65	0.550
C27,20R TAS	ND		mg/kg	1.65	0.550
C28,20R TAS	ND		mg/kg	1.65	0.550

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	91		50-130
Phenanthrene-d10	100		50-130
Benzo(a)pyrene-d12	104		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054480-2 WG2054480-3								
Naphthalene	92		94		50-130	2		30
2-Methylnaphthalene	96		99		50-130	3		30
Acenaphthylene	97		99		50-130	2		30
Acenaphthene	94		96		50-130	2		30
Fluorene	98		100		50-130	2		30
Phenanthrene	94		97		50-130	3		30
Anthracene	107		109		50-130	2		30
Fluoranthene	92		94		50-130	2		30
Pyrene	97		99		50-130	2		30
Benz(a)anthracene	106		109		50-130	3		30
Chrysene/Triphenylene	96		98		50-130	2		30
Benzo(b)fluoranthene	99		101		50-130	2		30
Benzo(j)+(k)Fluoranthene	104		107		50-130	3		30
Benzo(a)pyrene	105		107		50-130	2		30
Indeno(1,2,3-cd)Pyrene	111		118		50-130	6		30
Dibenz(a,h)+(a,c)anthracene	108		111		50-130	3		30
Benzo(ghi)perylene	109		113		50-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054480-2 WG2054480-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Naphthalene-d8	93		94		50-130
Phenanthrene-d10	96		97		50-130
Benzo(a)pyrene-d12	106		107		50-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Cis/Trans-Decalin	390	373	mg/kg	4		30
C1-Decalins	657	624	mg/kg	5		30
C2-Decalins	767	703	mg/kg	9		30
C3-Decalins	466	428	mg/kg	9		30
C4-Decalins	490	473	mg/kg	4		30
Naphthalene	338	322	mg/kg	5		30
C1-Naphthalenes	1350	1280	mg/kg	5		30
C2-Naphthalenes	1850	1760	mg/kg	5		30
C3-Naphthalenes	1020	968	mg/kg	5		30
C4-Naphthalenes	356	340	mg/kg	5		30
2-Methylnaphthalene	1380	1310	mg/kg	5		30
1-Methylnaphthalene	813	772	mg/kg	5		30
Benzothiophene	4.77	4.46	mg/kg	7		30
C1-Benzo(b)thiophenes	18.3	17.8	mg/kg	3		30
C2-Benzo(b)thiophenes	8.79	8.82	mg/kg	0		30
C3-Benzo(b)thiophenes	ND	ND	mg/kg	NC		30
C4-Benzo(b)thiophenes	ND	ND	mg/kg	NC		30
Biphenyl	336	312	mg/kg	7		30
2,6-Dimethylnaphthalene	1230	1170	mg/kg	5		30
Dibenzofuran	8.74	8.41	mg/kg	4		30
Acenaphthylene	5.97	5.81	mg/kg	3		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Acenaphthene	43.8G	42.2G	mg/kg	4		30
2,3,5-Trimethylnaphthalene	185	160	mg/kg	14		30
Fluorene	116	112	mg/kg	4		30
C1-Fluorenes	295	281	mg/kg	5		30
C2-Fluorenes	417	394	mg/kg	6		30
C3-Fluorenes	296	276	mg/kg	7		30
Dibenzothiophene	21.8	20.6	mg/kg	6		30
4-Methyldibenzothiophene(4MDT)	97.0	92.8	mg/kg	4		30
2/3-Methyldibenzothiophene(2MDT)	14.9	13.8	mg/kg	8		30
1-Methyldibenzothiophene(1MDT)	3.06	2.70	mg/kg	13		30
C1-Dibenzothiophenes	123	111	mg/kg	10		30
C2-Dibenzothiophenes	277	268	mg/kg	3		30
C3-Dibenzothiophenes	190	178	mg/kg	7		30
C4-Dibenzothiophenes	76.6	72.0	mg/kg	6		30
Phenanthrene	163	155	mg/kg	5		30
3-Methylphenanthrene (3MP)	114	107	mg/kg	6		30
2-Methylphenanthrene (2MP)	135	128	mg/kg	5		30
2-Methylanthracene (2MA)	2.73	2.73	mg/kg	0		30
9/4-Methylphenanthrene (9MP)	123	118	mg/kg	4		30
1-Methylphenanthrene (1MP)	93.1	88.7	mg/kg	5		30
C1-Phenanthrenes/Anthracenes	475	452	mg/kg	5		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
C2-Phenanthrenes/Anthracenes	541	512	mg/kg	6		30
C3-Phenanthrenes/Anthracenes	267	253	mg/kg	5		30
C4-Phenanthrenes/Anthracenes	103	94.2	mg/kg	9		30
Retene	ND	ND	mg/kg	NC		30
Anthracene	6.07	5.99	mg/kg	1		30
Carbazole	6.83	5.86	mg/kg	15		30
Fluoranthene	ND	0.859J	mg/kg	NC		30
Benzo(b)fluorene	3.77	4.51	mg/kg	18		30
Pyrene	8.48	8.16	mg/kg	4		30
C1-Fluoranthenes/Pyrenes	45.5	42.3	mg/kg	7		30
C2-Fluoranthenes/Pyrenes	62.3	58.5	mg/kg	6		30
C3-Fluoranthenes/Pyrenes	83.2	74.6	mg/kg	11		30
C4-Fluoranthenes/Pyrenes	74.4	70.1	mg/kg	6		30
Naphthobenzothiophene	6.71	6.26	mg/kg	7		30
C1-Naphthobenzothiophenes	36.4	34.1	mg/kg	7		30
C2-Naphthobenzothiophenes	67.8	63.0	mg/kg	7		30
C3-Naphthobenzothiophenes	48.8	48.3	mg/kg	1		30
C4-Naphthobenzothiophenes	32.5	32.0	mg/kg	2		30
Benz(a)anthracene	1.43J	1.15J	mg/kg	NC		30
Chrysene/Triphenylene	28.3	26.5	mg/kg	7		30
C1-Chrysenes	80.3	77.0	mg/kg	4		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
C2-Chrysenes	103	97.2	mg/kg	6		30
C3-Chrysenes	81.6	84.0	mg/kg	3		30
C4-Chrysenes	52.7	52.6	mg/kg	0		30
Benzo(b)fluoranthene	1.37J	1.32J	mg/kg	NC		30
Benzo(j)+(k)Fluoranthene	ND	ND	mg/kg	NC		30
Benzo(a)fluoranthene	ND	ND	mg/kg	NC		30
Benzo(e)Pyrene	6.01	7.10	mg/kg	17		30
Benzo(a)pyrene	2.79	2.40	mg/kg	15		30
Perylene	2.25	1.88	mg/kg	18		30
Indeno(1,2,3-cd)Pyrene	ND	ND	mg/kg	NC		30
Dibenz(a,h)+(a,c)anthracene	0.861J	ND	mg/kg	NC		30
Benzo(ghi)perylene	0.461J	0.858J	mg/kg	NC		30
Hopane (T19)	ND	ND	mg/kg	NC		30
C23 Tricyclic Terpane (T4)	ND	ND	mg/kg	NC		30
C24 Tricyclic Terpane (T5)	ND	ND	mg/kg	NC		30
C25 Tricyclic Terpane (T6)	ND	ND	mg/kg	NC		30
C24 Tetracyclic Terpane (T6a)	ND	ND	mg/kg	NC		30
C26 Tricyclic Terpane-22S (T6b)	ND	ND	mg/kg	NC		30
C26 Tricyclic Terpane-22R (T6c)	ND	ND	mg/kg	NC		30
C28 Tricyclic Terpane-22S (T7)	ND	ND	mg/kg	NC		30
C28 Tricyclic Terpane-22R (T8)	ND	ND	mg/kg	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
C29 Tricyclic Terpane-22S (T9)	ND	ND	mg/kg	NC		30
C29 Tricyclic Terpane-22R (T10)	ND	ND	mg/kg	NC		30
18a-22,29,30-Trisnorneohopane-TS (T11)	ND	ND	mg/kg	NC		30
C30 Tricyclic Terpane-22S	ND	ND	mg/kg	NC		30
C30 Tricyclic Terpane-22R	ND	ND	mg/kg	NC		30
17a(H)-22,29,30-Trisnorhopane-TM (T12)	ND	ND	mg/kg	NC		30
17a/b,21b/a 28,30-Bisnorhopane (T14a)	ND	ND	mg/kg	NC		30
17a(H),21b(H)-25-Norhopane (T14b)	ND	ND	mg/kg	NC		30
30-Norhopane (T15)	ND	ND	mg/kg	NC		30
18a(H)-30-Norneohopane-C29Ts (T16)	ND	ND	mg/kg	NC		30
17a(H)-Diahopane (X)	ND	ND	mg/kg	NC		30
30-Normoretane (T17)	ND	ND	mg/kg	NC		30
18a(H)&18b(H)-Oleananes (T18)	ND	ND	mg/kg	NC		30
Moretane (T20)	ND	ND	mg/kg	NC		30
30-Homohopane-22S (T21)	ND	ND	mg/kg	NC		30
30-Homohopane-22R (T22)	ND	ND	mg/kg	NC		30
Gammacerane/C32-Diahopane	ND	ND	mg/kg	NC		30
30,31-Bishomohopane-22S (T26)	ND	ND	mg/kg	NC		30
30,31-Bishomohopane-22R (T27)	ND	ND	mg/kg	NC		30
30,31-Trishomohopane-22S (T30)	ND	ND	mg/kg	NC		30
30,31-Trishomohopane-22R (T31)	ND	ND	mg/kg	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Tetrakishomohopane-22S (T32)	ND	ND	mg/kg	NC		30
Tetrakishomohopane-22R (T33)	ND	ND	mg/kg	NC		30
Pentakishomohopane-22S (T34)	ND	ND	mg/kg	NC		30
Pentakishomohopane-22R (T35)	ND	ND	mg/kg	NC		30
13b(H),17a(H)-20S-Diacholestane (S4)	27.2	26.7	mg/kg	2		30
13b(H),17a(H)-20R-Diacholestane (S5)	17.0	15.6	mg/kg	9		30
13b,17a-20S-Methyldiacholestane (S8)	19.3	18.3	mg/kg	5		30
17a(H)20SC27/C29dia	21.1	21.4	mg/kg	1		30
17a(H)20rc27/C29dia	15.8	19.5	mg/kg	21		30
Unknown Sterane (S18)	ND	ND	mg/kg	NC		30
13a,17b-20S-Ethyldiacholestane (S19)	ND	ND	mg/kg	NC		30
14a,17a-20S-Methylcholestane (S20)	7.80	8.27	mg/kg	6		30
14a,17a-20R-Methylcholestane (S24)	ND	ND	mg/kg	NC		30
14a(H),17a(H)-20S-Ethylcholestane (S25)	ND	ND	mg/kg	NC		30
14a(H),17a(H)-20R-Ethylcholestane (S28)	ND	ND	mg/kg	NC		30
14b(H),17b(H)-20R-Cholestane (S14)	5.56	4.74	mg/kg	16		30
14b(H),17b(H)-20S-Cholestane (S15)	5.63	6.34	mg/kg	12		30
14b,17b-20R-Methylcholestane (S22)	5.54	4.32	mg/kg	25		30
14b,17b-20S-Methylcholestane (S23)	5.34	5.43	mg/kg	2		30
14b(H),17b(H)-20R-Ethylcholestane (S26)	5.88	6.23	mg/kg	6		30
14b(H),17b(H)-20S-Ethylcholestane (S27)	4.60	3.79	mg/kg	19		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Alkylated PAHs/Biomarkers by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
C26,20R+C27,20S TAS	ND	ND	mg/kg	NC		30
C28,20S TAS	ND	ND	mg/kg	NC		30
C27,20R TAS	ND	ND	mg/kg	NC		30
C28,20R TAS	ND	ND	mg/kg	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	97		95		50-130
Phenanthrene-d10	98		95		50-130
Benzo(a)pyrene-d12	111		111		50-130

PETROLEUM HYDROCARBONS

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01
Client ID: GACO0408SC001
Sample Location: Not Specified

Date Collected: 04/08/25 13:51
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 04/17/25 01:02
Analyst: AMV
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Nonane (C9)	4520		mg/kg	189	18.4	1
n-Decane (C10)	7190		mg/kg	189	20.0	1
n-Undecane (C11)	10600		mg/kg	189	20.6	1
n-Dodecane (C12)	12100		mg/kg	189	26.7	1
n-Tridecane (C13)	11600		mg/kg	189	110.	1
2,6,10-Trimethyldodecane (1380)	2480		mg/kg	189	19.7	1
n-Tetradecane (C14)	11000		mg/kg	189	19.7	1
2,6,10-Trimethyltridecane (1470)	3510		mg/kg	189	47.1	1
n-Pentadecane (C15)	10500		mg/kg	189	47.1	1
n-Hexadecane (C16)	9200		mg/kg	189	18.2	1
Norpristane (1650)	2630		mg/kg	189	22.9	1
n-Heptadecane (C17)	7730		mg/kg	189	22.9	1
Pristane	4220		mg/kg	189	30.5	1
n-Octadecane (C18)	6330		mg/kg	189	15.2	1
Phytane	2980		mg/kg	189	15.9	1
n-Nonadecane (C19)	5490		mg/kg	189	15.4	1
n-Eicosane (C20)	5240		mg/kg	189	10.5	1
n-Heneicosane (C21)	4360		mg/kg	189	12.7	1
n-Docosane (C22)	3930		mg/kg	189	8.17	1
n-Tricosane (C23)	3290		mg/kg	189	11.2	1
n-Tetracosane (C24)	3170		mg/kg	189	17.6	1
n-Pentacosane (C25)	2820		mg/kg	189	11.1	1
n-Hexacosane (C26)	2550		mg/kg	189	20.8	1
n-Heptacosane (C27)	1880		mg/kg	189	14.8	1
n-Octacosane (C28)	1390		mg/kg	189	63.2	1
n-Nonacosane (C29)	1390		mg/kg	189	17.8	1
n-Triacontane (C30)	1070		mg/kg	189	18.9	1
n-Hentriacontane (C31)	989		mg/kg	189	20.2	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 Date Collected: 04/08/25 13:51

Client ID: GACO0408SC001 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Dotriacontane (C32)	789		mg/kg	189	21.0	1
n-Tritriacontane (C33)	692		mg/kg	189	19.0	1
n-Tetratriacontane (C34)	666		mg/kg	189	25.2	1
n-Pentatriacontane (C35)	662		mg/kg	189	20.8	1
n-Hexatriacontane (C36)	489		mg/kg	189	19.6	1
n-Heptatriacontane (C37)	529		mg/kg	189	32.1	1
n-Octatriacontane (C38)	493		mg/kg	189	29.1	1
n-Nonatriacontane (C39)	360		mg/kg	189	34.6	1
n-Tetracontane (C40)	379		mg/kg	189	34.6	1
Total Petroleum Hydrocarbons (C9-C44)	775000		mg/kg	6240	911.	1
Total Saturated Hydrocarbons	149000		mg/kg	189	8.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	91		50-130
d50-Tetracosane	99		50-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02
Client ID: GACO0408SC002
Sample Location: Not Specified

Date Collected: 04/08/25 13:53
Date Received: 04/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 04/17/25 03:57
Analyst: AMV
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Nonane (C9)	3670		mg/kg	146	14.2	1
n-Decane (C10)	6430		mg/kg	146	15.5	1
n-Undecane (C11)	10200		mg/kg	146	16.0	1
n-Dodecane (C12)	12100		mg/kg	146	20.6	1
n-Tridecane (C13)	12100		mg/kg	146	85.6	1
2,6,10-Trimethyldodecane (1380)	2520		mg/kg	146	15.2	1
n-Tetradecane (C14)	11200		mg/kg	146	15.2	1
2,6,10-Trimethyltridecane (1470)	3560		mg/kg	146	36.5	1
n-Pentadecane (C15)	10900		mg/kg	146	36.5	1
n-Hexadecane (C16)	9510		mg/kg	146	14.1	1
Norpristane (1650)	2730		mg/kg	146	17.7	1
n-Heptadecane (C17)	7960		mg/kg	146	17.7	1
Pristane	4350		mg/kg	146	23.6	1
n-Octadecane (C18)	6520		mg/kg	146	11.8	1
Phytane	3030		mg/kg	146	12.3	1
n-Nonadecane (C19)	5670		mg/kg	146	11.9	1
n-Eicosane (C20)	5350		mg/kg	146	8.15	1
n-Heneicosane (C21)	4460		mg/kg	146	9.83	1
n-Docosane (C22)	4040		mg/kg	146	6.33	1
n-Tricosane (C23)	3330		mg/kg	146	8.72	1
n-Tetracosane (C24)	3190		mg/kg	146	13.6	1
n-Pentacosane (C25)	2840		mg/kg	146	8.58	1
n-Hexacosane (C26)	2550		mg/kg	146	16.1	1
n-Heptacosane (C27)	1760		mg/kg	146	11.5	1
n-Octacosane (C28)	1360		mg/kg	146	48.9	1
n-Nonacosane (C29)	1240		mg/kg	146	13.8	1
n-Triacontane (C30)	972		mg/kg	146	14.6	1
n-Hentriacontane (C31)	873		mg/kg	146	15.6	1

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 Date Collected: 04/08/25 13:53

Client ID: GACO0408SC002 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Dotriacontane (C32)	657		mg/kg	146	16.3	1
n-Tritriacontane (C33)	565		mg/kg	146	14.7	1
n-Tetratriacontane (C34)	540		mg/kg	146	19.5	1
n-Pentatriacontane (C35)	507		mg/kg	146	16.1	1
n-Hexatriacontane (C36)	373		mg/kg	146	15.2	1
n-Heptatriacontane (C37)	377		mg/kg	146	24.8	1
n-Octatriacontane (C38)	355		mg/kg	146	22.6	1
n-Nonatriacontane (C39)	222		mg/kg	146	26.8	1
n-Tetracontane (C40)	253		mg/kg	146	26.8	1
Total Petroleum Hydrocarbons (C9-C44)	800000		mg/kg	4840	706.	1
Total Saturated Hydrocarbons	148000		mg/kg	146	6.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	92		50-130
d50-Tetracosane	101		50-130

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 04/16/25 19:11
Analyst: AMV

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
Nonane (C9)	ND		mg/kg	165	16.0
Decane (C10)	ND		mg/kg	165	17.5
Undecane	ND		mg/kg	165	18.0
Dodecane (C12)	ND		mg/kg	165	23.3
Tridecane	ND		mg/kg	165	96.4
2,6,10-Trimethyldodecane (1380)	ND		mg/kg	165	17.2
Tetradecane (C14)	ND		mg/kg	165	17.2
2,6,10-Trimethyltridecane (1470)	ND		mg/kg	165	41.1
n-Pentadecane (C15)	ND		mg/kg	165	41.1
Hexadecane (C16)	ND		mg/kg	165	15.8
Norpristane (1650)	ND		mg/kg	165	20.0
n-Heptadecane (C17)	ND		mg/kg	165	20.0
Pristane	ND		mg/kg	165	26.6
Octadecane (C18)	146	J	mg/kg	165	13.3
Phytane	ND		mg/kg	165	13.9
Nonadecane (C19)	ND		mg/kg	165	13.4
Eicosane (C20)	ND		mg/kg	165	9.18
Heneicosane (C21)	ND		mg/kg	165	11.1
Docosane (C22)	ND		mg/kg	165	7.13
n-Tricosane (C23)	ND		mg/kg	165	9.83
Tetracosane (C24)	5.28	J	mg/kg	165	15.3
Pentacosane (C25)	86.7	J	mg/kg	165	9.68
Hexacosane (C26)	ND		mg/kg	165	18.2
Heptacosane (C27)	ND		mg/kg	165	12.9
Octacosane (C28)	ND		mg/kg	165	55.2
Nonacosane (C29)	ND		mg/kg	165	15.5
Triacontane (C30)	ND		mg/kg	165	16.5
Hentatriacontane (C31)	ND		mg/kg	165	17.6
Dotriacontane (C32)	ND		mg/kg	165	18.3

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 04/16/25 19:11
Analyst: AMV

Extraction Method: EPA 3580A
Extraction Date: 04/16/25 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG2054480-1					
Tritriacontane (C33)	ND		mg/kg	165	16.5
Tetratriacontane (C34)	ND		mg/kg	165	22.0
Pentatriacontane (C35)	ND		mg/kg	165	18.2
Hexatriacontane (C36)	ND		mg/kg	165	17.1
Heptatriacontane (C37)	ND		mg/kg	165	28.0
Octatriacontane (C38)	ND		mg/kg	165	25.4
Nonatriacontane (C39)	ND		mg/kg	165	30.2
Tetracontane (C40)	ND		mg/kg	165	30.2
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	5450	796.
Total Saturated Hydrocarbons	238	J	mg/kg	165	7.13

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		50-130
d50-Tetracosane	98		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054480-2 WG2054480-3								
Nonane (C9)	106		108		50-130	2		30
Decane (C10)	94		96		50-130	2		30
Dodecane (C12)	97		98		50-130	1		30
Tetradecane (C14)	96		98		50-130	2		30
Hexadecane (C16)	103		104		50-130	1		30
Octadecane (C18)	104		105		50-130	1		30
Nonadecane (C19)	99		100		50-130	1		30
Eicosane (C20)	101		102		50-130	1		30
Docosane (C22)	99		100		50-130	1		30
Tetracosane (C24)	105		106		50-130	1		30
Hexacosane (C26)	99		100		50-130	1		30
Octacosane (C28)	97		98		50-130	1		30
Triacontane (C30)	99		100		50-130	1		30
Hexatriacontane (C36)	93		94		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	91		91		50-130
d50-Tetracosane	98		98		50-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab GACO0408SC001	Associated sample(s): 01-02	QC Batch ID: WG2054480-4		QC Sample: L2521788-01		Client ID:
Nonane (C9)	4520	4290	mg/kg	5		30
Decane (C10)	7190	6930	mg/kg	4		30
Undecane	10600	10300	mg/kg	3		30
Dodecane (C12)	12100	11200	mg/kg	8		30
Tridecane	11600	11300	mg/kg	3		30
2,6,10-Trimethyldodecane (1380)	2480	2380	mg/kg	4		30
Tetradecane (C14)	11000	10500	mg/kg	5		30
2,6,10-Trimethyltridecane (1470)	3510	3310	mg/kg	6		30
n-Pentadecane (C15)	10500	10100	mg/kg	4		30
Hexadecane (C16)	9200	8880	mg/kg	4		30
Norpristane (1650)	2630	2550	mg/kg	3		30
n-Heptadecane (C17)	7730	7380	mg/kg	5		30
Pristane	4220	4080	mg/kg	3		30
Octadecane (C18)	6330	6130	mg/kg	3		30
Phytane	2980	2880	mg/kg	3		30
Nonadecane (C19)	5490	5320	mg/kg	3		30
Eicosane (C20)	5240	5080	mg/kg	3		30
Heneicosane (C21)	4360	4220	mg/kg	3		30
Docosane (C22)	3930	3810	mg/kg	3		30
n-Tricosane (C23)	3290	3180	mg/kg	3		30
Tetracosane (C24)	3170	3080	mg/kg	3		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab GACO0408SC001	Associated sample(s): 01-02	QC Batch ID: WG2054480-4		QC Sample: L2521788-01		Client ID:
Pentacosane (C25)	2820	2740	mg/kg	3		30
Hexacosane (C26)	2550	2540	mg/kg	0		30
Heptacosane (C27)	1880	1820	mg/kg	3		30
Octacosane (C28)	1390	1440	mg/kg	4		30
Nonacosane (C29)	1390	1320	mg/kg	5		30
Triacontane (C30)	1070	1040	mg/kg	3		30
Hentatriacontane (C31)	989	968	mg/kg	2		30
Dotriacontane (C32)	789	749	mg/kg	5		30
Tritriacontane (C33)	692	682	mg/kg	1		30
Tetratriacontane (C34)	666	664	mg/kg	0		30
Pentatriacontane (C35)	662	633	mg/kg	4		30
Hexatriacontane (C36)	489	488	mg/kg	0		30
Heptatriacontane (C37)	529	539	mg/kg	2		30
Octatriacontane (C38)	493	486	mg/kg	1		30
Nonatriacontane (C39)	360	345	mg/kg	4		30
Tetracontane (C40)	379	386	mg/kg	2		30
Total Petroleum Hydrocarbons (C9-C44)	775000	760000	mg/kg	2		30
Total Saturated Hydrocarbons	149000	144000	mg/kg	4		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria

Lab Duplicate Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Saturated Hydrocarbons by GC-FID - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054480-4 QC Sample: L2521788-01 Client ID: GACO0408SC001

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		91		50-130
d50-Tetracosane	99		101		50-130

METALS

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-01 Date Collected: 04/08/25 13:51

Client ID: GACO0408SC001 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Oil

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10.6	J	mg/kg	14.8	4.82	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	7.42	5.71	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Arsenic, Total	ND		mg/kg	1.48	0.641	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Barium, Total	6.32		mg/kg	1.48	0.157	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.742	0.082	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	1.48	0.082	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Calcium, Total	73.1		mg/kg	14.8	8.41	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Chromium, Total	ND		mg/kg	1.48	1.26	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Cobalt, Total	ND		mg/kg	2.97	0.368	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Copper, Total	ND		mg/kg	1.48	0.337	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Iron, Total	121		mg/kg	7.42	1.56	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Lead, Total	ND		mg/kg	7.42	0.353	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Magnesium, Total	7.33	J	mg/kg	14.8	2.42	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Manganese, Total	1.12	J	mg/kg	1.48	0.795	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.075	0.049	1	04/16/25 15:40	04/17/25 06:40	EPA 7471B	1,7471B	MJR
Nickel, Total	ND		mg/kg	3.71	1.20	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Potassium, Total	ND		mg/kg	371	75.2	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	2.97	0.488	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.742	0.442	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Sodium, Total	700		mg/kg	297	157.	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	2.97	1.34	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Vanadium, Total	ND		mg/kg	1.48	0.224	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM
Zinc, Total	ND		mg/kg	7.42	0.899	1	04/16/25 14:57	04/17/25 10:56	EPA 3050B	1,6010D	EFM

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

SAMPLE RESULTS

Lab ID: L2521788-02 Date Collected: 04/08/25 13:53

Client ID: GACO0408SC002 Date Received: 04/10/25

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Oil

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6.73	J	mg/kg	14.2	4.60	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	7.08	5.45	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Arsenic, Total	ND		mg/kg	1.42	0.612	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Barium, Total	2.26		mg/kg	1.42	0.150	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.708	0.078	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	1.42	0.078	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Calcium, Total	48.2		mg/kg	14.2	8.03	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Chromium, Total	ND		mg/kg	1.42	1.20	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Cobalt, Total	ND		mg/kg	2.83	0.351	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Copper, Total	ND		mg/kg	1.42	0.322	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Iron, Total	58.5		mg/kg	7.08	1.49	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Lead, Total	ND		mg/kg	7.08	0.337	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Magnesium, Total	7.25	J	mg/kg	14.2	2.31	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Manganese, Total	ND		mg/kg	1.42	0.759	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.072	0.047	1	04/16/25 15:40	04/17/25 06:49	EPA 7471B	1,7471B	MJR
Nickel, Total	ND		mg/kg	3.54	1.14	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Potassium, Total	ND		mg/kg	354	71.8	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	2.83	0.466	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.708	0.422	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Sodium, Total	398		mg/kg	283	150.	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	2.83	1.28	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Vanadium, Total	ND		mg/kg	1.42	0.214	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM
Zinc, Total	ND		mg/kg	7.08	0.858	1	04/16/25 14:57	04/17/25 10:50	EPA 3050B	1,6010D	EFM

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG2054698-1										
Aluminum, Total	ND		mg/kg	10.0	3.25	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Antimony, Total	ND		mg/kg	5.00	3.85	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Arsenic, Total	ND		mg/kg	1.00	0.432	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Barium, Total	ND		mg/kg	1.00	0.106	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.500	0.055	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Cadmium, Total	ND		mg/kg	1.00	0.055	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Calcium, Total	ND		mg/kg	10.0	5.67	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Chromium, Total	ND		mg/kg	1.00	0.848	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Cobalt, Total	ND		mg/kg	2.00	0.248	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Copper, Total	ND		mg/kg	1.00	0.227	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Iron, Total	ND		mg/kg	5.00	1.05	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Lead, Total	ND		mg/kg	5.00	0.238	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Magnesium, Total	ND		mg/kg	10.0	1.63	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Manganese, Total	ND		mg/kg	1.00	0.536	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Nickel, Total	ND		mg/kg	2.50	0.808	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Potassium, Total	ND		mg/kg	250	50.7	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Selenium, Total	ND		mg/kg	2.00	0.329	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Silver, Total	ND		mg/kg	0.500	0.298	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Sodium, Total	ND		mg/kg	200	106.	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Thallium, Total	ND		mg/kg	2.00	0.902	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Vanadium, Total	ND		mg/kg	1.00	0.151	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM
Zinc, Total	ND		mg/kg	5.00	0.606	1	04/16/25 14:57	04/17/25 10:37	1,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG2054709-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/16/25 15:40	04/17/25 06:34	1,7471B	MJR

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054698-2								
Aluminum, Total	96		-		80-120	-		
Antimony, Total	91		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	102		-		80-120	-		
Cadmium, Total	94		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	97		-		80-120	-		
Copper, Total	90		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	94		-		80-120	-		
Magnesium, Total	88		-		80-120	-		
Manganese, Total	96		-		80-120	-		
Nickel, Total	95		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	100		-		80-120	-		
Silver, Total	91		-		80-120	-		
Sodium, Total	102		-		80-120	-		
Thallium, Total	91		-		80-120	-		
Vanadium, Total	94		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054698-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG2054709-2					
Mercury, Total	93	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054698-3 QC Sample: L2521788-01 Client ID: GACO0408SC001												
Aluminum, Total	10.6J	568	594	105		-	-		75-125	-		20
Antimony, Total	ND	142	140	99		-	-		75-125	-		20
Arsenic, Total	ND	34.1	32.9	96		-	-		75-125	-		20
Barium, Total	6.32	568	585	102		-	-		75-125	-		20
Beryllium, Total	ND	14.2	15.3	108		-	-		75-125	-		20
Cadmium, Total	ND	15	14.8	98		-	-		75-125	-		20
Calcium, Total	73.1	2840	2930	101		-	-		75-125	-		20
Chromium, Total	ND	56.8	58.9	104		-	-		75-125	-		20
Cobalt, Total	ND	142	144	101		-	-		75-125	-		20
Copper, Total	ND	71	68.0	96		-	-		75-125	-		20
Iron, Total	121	284	394	96		-	-		75-125	-		20
Lead, Total	ND	150	144	96		-	-		75-125	-		20
Magnesium, Total	7.33J	2840	2540	89		-	-		75-125	-		20
Manganese, Total	1.12J	142	144	101		-	-		75-125	-		20
Nickel, Total	ND	142	140	99		-	-		75-125	-		20
Potassium, Total	ND	2840	2900	102		-	-		75-125	-		20
Selenium, Total	ND	34.1	33.1	97		-	-		75-125	-		20
Silver, Total	ND	14.2	13.4	94		-	-		75-125	-		20
Sodium, Total	700	2840	3900	113		-	-		75-125	-		20
Thallium, Total	ND	34.1	31.9	94		-	-		75-125	-		20
Vanadium, Total	ND	142	140	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054698-3 QC Sample: L2521788-01 Client ID: GACO0408SC001									
Zinc, Total	ND	142	143	101	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054709-3 QC Sample: L2521788-01 Client ID: GACO0408SC001									
Mercury, Total	ND	1.47	1.30	88	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054698-4 QC Sample: L2521788-01 Client ID: GACO0408SC001						
Aluminum, Total	10.6J	5.80J	mg/kg	NC		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	ND	ND	mg/kg	NC		20
Barium, Total	6.32	6.66	mg/kg	5		20
Beryllium, Total	ND	ND	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	73.1	142	mg/kg	**64**	Q	20
Chromium, Total	ND	1.55	mg/kg	NC		20
Cobalt, Total	ND	ND	mg/kg	NC		20
Copper, Total	ND	ND	mg/kg	NC		20
Iron, Total	121	68.1	mg/kg	**56**	Q	20
Lead, Total	ND	ND	mg/kg	NC		20
Magnesium, Total	7.33J	18.0	mg/kg	NC		20
Manganese, Total	1.12J	0.855J	mg/kg	NC		20
Nickel, Total	ND	ND	mg/kg	NC		20
Potassium, Total	ND	ND	mg/kg	NC		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	700	3080	mg/kg	**126**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BISHOP LOSS OF CONTAINMENT

Project Number: PROJ-054019

Lab Number: L2521788

Report Date: 04/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054698-4 QC Sample: L2521788-01 Client ID: GACO0408SC001					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	ND	ND	mg/kg	NC	20
Zinc, Total	ND	ND	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2054709-4 QC Sample: L2521788-01 Client ID: GACO0408SC001					
Mercury, Total	ND	ND	mg/kg	NC	20

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2521788-01A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		A2-NFALKPAHBIOMARKER(365),BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),A2-NFSHC(365),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),A2-NFPIANO8260(365),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2521788-01B	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		A2-NFALKPAHBIOMARKER(365),BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),A2-NFSHC(365),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),A2-NFPIANO8260(365),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2521788-02A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		A2-NFALKPAHBIOMARKER(365),BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TS100(),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),A2-NFSHC(365),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),A2-NFPIANO8260(365),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: BISHOP LOSS OF CONTAINMENT
Project Number: PROJ-054019

Lab Number: L2521788
Report Date: 04/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2521788-02B	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		A2-NFALKPAHBIOMARKER(365),BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TS100(),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),A2-NFSHC(365),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),A2-NFPIANO8260(365),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	BISHOP LOSS OF CONTAINMENT	**Lab Number:**	L2521788
Project Number:	PROJ-054019	**Report Date:**	04/21/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: BISHOP LOSS OF CONTAINMENT **Lab Number:** L2521788

Project Number: PROJ-054019 **Report Date:** 04/21/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

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4/10/25

Chain of Custody

L7521788

Environmental Forensics Practice LLC

Proj. No	Proj. Name
PROJ-054019	Bishop Loss of Containment

SAMPLERS: Signature

Wild Well

21788
-01
-02

DATE	TIME	LAB ID	CLIENT ID	SAMPLE DESCRIPTION	MATRIX (* see below)	GC-FID-TPH (C_6+)	GCMS-Alkyl PAH	GCMS-Biomarkers	PIANO - VOA	~~Solvent~~ Hydrocarbons ~~Organic Lead~~	METALS	PCB	Pesticides	PRESERVED	Total Number of Containers
04/08/25	1351		GACO04085C001	Source Sample	O		X		X	X					
04/08/25	1353		GACO04085C002	Ditch Sample	O		X		X	X					

ANALYSIS REQUESTED→ "NUMBER OF CONTAINERS"

Relinquished by:	Date/Time	Received by:	Date/Time
Casey Neal / CTEH	04/08/25 1631	FEDEx	04/09/25 1631
Relinquished by:	Date/Time	Received by:	Date/Time
FedEx	4/10/25 08:04		4/10/25 08:04
Relinquished by:	Date/Time	Received by:	Date/Time

* O=Oil
SO=Soil
SE=Sediment
T=Tissue
W=Water

Samples to be shipped to: Alpha Laboratory
320 Forbes Blvd.
Mansfield, MA 02048
Tel: (508) 844-4117
Attn: Sue O'Neil

Comments:
Fingerprint
Rush TAT

ORIGIN ID:CKYA (469) 346-6784
CTR/TOXICOLOGY ENVIRO HLTH
5120 NORTHSHORE DR
NORTH LITTLE ROCK, AR 72118
UNITED STATES US

SHIP DATE: 09APR25
ACTWGT: 1.80 LB
CAD: 6994211/SSFE2600
DIMS: 8x8x11 IN
BILL THIRD PARTY

TO PACE/ALPHA LABORTORIES
ATTN: SUE ONEIL
320 FORBES BLVD
REF# PROG-054019
MANSFIELD MA 02048
(508) 844-4117
INV:
PO:
REF:
DEPT:

FedEx Express

THU - 10 APR 9:00A
FIRST OVERNIGHT

RK# 201 2873 9750 8231

X1 PYMA

02048
MA-US BOS

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This review was performed with guidance from the National Functional Guidelines for Organic Superfund Methods Data Review (US EPA, 2020, US EPA) and/or the National Functional Guidelines for Inorganic Superfund Methods Data Review (US EPA, 2020, US EPA). These validation guidance documents specifically address analyses performed in accordance with the CLP analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the Standard Method (SM), SW-846, and/or US EPA methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the quality of the analytical results and compliance relative to the Standard Method (SM), SW-846, and/or US EPA utilized by the laboratory. This QA review was performed on the data associated with Sample Delivery Group (SDG):

L2521788

The findings offered in this report are based on a review of the Chain-of-Custody Record and Case Narrative, sample preservation and condition upon laboratory receipt, holding times, surrogate recovery, field and laboratory blank results, laboratory and field duplicate precision, laboratory control sample / laboratory control sample duplicate recoveries and precision, matrix spike / matrix spike duplicate recoveries and precision, total and dissolved results comparisons, and/or percent solids (as applicable). All review items may not have been included in this SDG; therefore, only those items included in this SDG were addressed in the QA review.

The result has been reported below the method detection limit (MDL) and should be considered estimated. (OT)

A summary of the results of the data review process is provided below:

Sample	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Unit	Detect?
GACO0408SC001	N	SW8260D(M)	1,2-Diethylbenzene	N	33.7	J	RL	5.72	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,2,3-Trimethylpentane	N	7.46	J	RL	6.70	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,2-Dimethylpentane	N	9.33	J	RL	5.20	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,3,3-Trimethylpentane	N	13.3	J	RL	7.67	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,3,4-Trimethylpentane	N	24.0	J	RL	5.04	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,3-Dimethylbutane	N	25.0	J	RL	16.0	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2,4-Dimethylpentane	N	35.3	J	RL	4.77	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	2-Ethylthiophene	N	2.86	J	OT	4.23	38.6	mg/Kg	Y
GACO0408SC001	N	SW8260D(M)	N-Pentylbenzene	N	32.5	J	RL	4.81	38.6	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Aluminum, Total	T	10.6	J	RL	4.82	14.8	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Calcium, Total	T	73.1	J	LD	8.41	14.8	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Iron, Total	T	121	J	LD	1.56	7.42	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Magnesium, Total	T	7.33	J	RL	2.42	14.8	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Manganese, Total	T	1.12	J	RL	0.795	1.48	mg/Kg	Y
GACO0408SC001	N	SW846 6010D	Sodium, Total	T	700	J	LD	157	297	mg/Kg	Y
GACO0408SC001	N	SW846 8270E-SIM(M)	Acenaphthene	N	43.8	J	IN	0.500	1.89	mg/Kg	Y
GACO0408SC001	N	SW846 8270E-SIM(M)	Benz(a)anthracene	N	1.43	J	RL	0.579	1.89	mg/Kg	Y
GACO0408SC001	N	SW846 8270E-SIM(M)	Benzo(b)fluoranthene	N	1.37	J	RL	0.738	1.89	mg/Kg	Y
GACO0408SC001	N	SW846 8270E-SIM(M)	Benzo(ghi)perylene	N	0.461	J	OT	0.754	1.89	mg/Kg	Y
GACO0408SC001	N	SW846 8270E-SIM(M)	Dibenz (a,h)+(a,c)anthracene	N	0.861	J	RL	0.767	1.89	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	1,2-Diethylbenzene	N	27.7	J	RL	6.78	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	1-Methyl-2-Isopropylbenzene	N	35.3	J	RL	4.97	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,2,3-Trimethylpentane	N	4.31	J	OT	7.95	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,3,3-Trimethylpentane	N	9.21	J	RL	9.10	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,3,4-Trimethylpentane	N	15.8	J	RL	5.98	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,3-Dimethylbutane	N	11.4	J	OT	18.9	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,4-Dimethylpentane	N	17.8	J	RL	5.66	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2,5-Dimethylhexane	N	34.1	J	RL	7.97	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	2-Ethylthiophene	N	3.16	J	OT	5.02	45.8	mg/Kg	Y

Sample	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Unit	Detect?
GACO0408SC002	N	SW8260D(M)	3-Ethylhexane	N	35.2	J	RL	8.20	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	Benzene	N	29.2	J	RL	6.99	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	Cyclopentane	N	19.2	J	RL	11.9	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	Indane	N	35.0	J	RL	2.82	45.8	mg/Kg	Y
GACO0408SC002	N	SW8260D(M)	N-Pentylbenzene	N	20.6	J	RL	5.70	45.8	mg/Kg	Y
GACO0408SC002	N	SW846 6010D	Aluminum, Total	T	6.73	J	RL	4.60	14.2	mg/Kg	Y
GACO0408SC002	N	SW846 6010D	Calcium, Total	T	48.2	J	LD	8.03	14.2	mg/Kg	Y
GACO0408SC002	N	SW846 6010D	Iron, Total	T	58.5	J	LD	1.49	7.08	mg/Kg	Y
GACO0408SC002	N	SW846 6010D	Magnesium, Total	T	7.25	J	RL	2.31	14.2	mg/Kg	Y
GACO0408SC002	N	SW846 6010D	Sodium, Total	T	398	J	LD	150	283	mg/Kg	Y
GACO0408SC002	N	SW846 8270E-SIM(LL)	Acenaphthene	N	45.1	J	IN	0.387	1.46	mg/Kg	Y
GACO0408SC002	N	SW846 8270E-SIM(LL)	Benz(a)anthracene	N	1.10	J	RL	0.448	1.46	mg/Kg	Y
GACO0408SC002	N	SW846 8270E-SIM(LL)	Benzo(b)fluoranthene	N	1.41	J	RL	0.572	1.46	mg/Kg	Y

Data Qualifiers

U	The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate, or was observed in a blank at a similar level.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reason Codes and Explanations

BF	Contamination present in a field blank (e.g ., Field Blank, Equipment Blank, etc .); evaluation criteria exceeded
BL	Contamination present in a laboratory blank (e.g ., Method Blank, Instrument Blank, etc .); evaluation criteria exceeded
BT	Contamination present in the Trip Blank; evaluation criteria exceeded
CC	Possible contamination due to carryover from a previous sample
CR	Calculated result in which one or more of the components has been qualified
CRQ	Calculated result flagged due to reporting protocol
CT	Cooler temperature criteria not met
CY	Chemical Yield recovery criteria not met
EC	Result exceeds the calibration range; potential bias indeterminate
FD	Field duplicate imprecision; potential bias indeterminate
GH	Headspace present in the gamma spectrometer sample analysis vessel; potential bias indeterminate
GS	Low sample density in the gamma spectrometer sample analysis vessel; potential bias indeterminate
HT	Holding time exceeded
HV	Headspace present in volatile vials
IN	Interference (e.g. , laboratory, chemical, chromatographic/instrumental, and/or matrix) present in the analysis
LC	Laboratory control sample/laboratory control sample duplicate recovery criteria not met
LCP	Laboratory control sample/laboratory control sample duplicate precision criteria not met; potential bias indeterminate
LD	Laboratory duplicate precision criteria not met; potential bias indeterminate
MDP	Laboratory deviated from the method for a method-defined parameter, based on regulatory requirements
MS	Matrix spike/matrix spike duplicate recovery criteria not met
MSP	Matrix spike/matrix spike duplicate precision criteria not met; potential bias indeterminate
PD	Post-digestion spike recovery criteria not met
OT	Other deficiencies, see report for additional details

PS	Low percent solids; potential bias indeterminate
RA	Replicate/multiple analyses criteria not met; potential bias indeterminate
RL	The analysis meets all qualitative identification criteria, but the measured concentration is between the method detection limit and the quantitation or reporting limit; potential bias indeterminate
RS	Reporting limit standard(s) outside of acceptance limits
SC	Relative percent difference between two columns exceeds criteria; potential bias indeterminate
SP	Sample preservation criteria not met
SR	Surrogate recovery criteria not met
ST	Sample container type incorrect
SU	Sample result is less than the two-sigma uncertainty
SUN	Absolute value of the negative sample result is greater than the two-sigma uncertainty
SW	Sample switch suspected
TD	Result for dissolved constituent significantly exceeded result for total constituent; potential bias indeterminate
TIC	Tentatively identified compound, quantified using an assumed calibration factor; potential bias indeterminate

Facility: A07-01 Pad
SDG: L2521788

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8015D(M)	2,6,10-Trimethyldodecane (1380)	3891-98-3	N	INITIAL	mg/Kg	2480			19.7	19.7	189	Y	Yes	1	NA
	2,6,10-Trimethyltridecane (1470)	TMTD1470	N	INITIAL	mg/Kg	3510			47.1	47.1	189	Y	Yes	1	NA
	n-Decane (C10)	124-18-5	N	INITIAL	mg/Kg	7190			20.0	20.0	189	Y	Yes	1	NA
	n-Docosane (C22)	629-97-0	N	INITIAL	mg/Kg	3930			8.17	8.17	189	Y	Yes	1	NA
	n-Dodecane (C12)	112-40-3	N	INITIAL	mg/Kg	12100			26.7	26.7	189	Y	Yes	1	NA
	n-Dotriacontane (C32)	544-85-4	N	INITIAL	mg/Kg	789			21.0	21.0	189	Y	Yes	1	NA
	n-Eicosane (C20)	112-95-8	N	INITIAL	mg/Kg	5240			10.5	10.5	189	Y	Yes	1	NA
	n-Heneicosane (C21)	629-94-7	N	INITIAL	mg/Kg	4360			12.7	12.7	189	Y	Yes	1	NA
	n-Hentriacontane (C31)	630-04-6	N	INITIAL	mg/Kg	989			20.2	20.2	189	Y	Yes	1	NA
	n-Heptacosane (C27)	593-49-7	N	INITIAL	mg/Kg	1880			14.8	14.8	189	Y	Yes	1	NA
	n-Heptadecane (C17)	629-78-7	N	INITIAL	mg/Kg	7730			22.9	22.9	189	Y	Yes	1	NA
	n-Heptatriacontane (C37)	7194-84-5	N	INITIAL	mg/Kg	529			32.1	32.1	189	Y	Yes	1	NA
	n-Hexacosane (C26)	630-01-3	N	INITIAL	mg/Kg	2550			20.8	20.8	189	Y	Yes	1	NA
	n-Hexadecane (C16)	544-76-3	N	INITIAL	mg/Kg	9200			18.2	18.2	189	Y	Yes	1	NA
	n-Hexatriacontane (C36)	630-06-8	N	INITIAL	mg/Kg	489			19.6	19.6	189	Y	Yes	1	NA
	n-Nonacosane (C29)	630-03-5	N	INITIAL	mg/Kg	1390			17.8	17.8	189	Y	Yes	1	NA
	n-Nonadecane (C19)	629-92-5	N	INITIAL	mg/Kg	5490			15.4	15.4	189	Y	Yes	1	NA
	n-Nonane (C9)	111-84-2	N	INITIAL	mg/Kg	4520			18.4	18.4	189	Y	Yes	1	NA
	n-Nonatriacontane (C39)	7194-86-7	N	INITIAL	mg/Kg	360			34.6	34.6	189	Y	Yes	1	NA
	n-Octacosane (C28)	630-02-4	N	INITIAL	mg/Kg	1390			63.2	63.2	189	Y	Yes	1	NA
	n-Octadecane (C18)	593-45-3	N	INITIAL	mg/Kg	6330			15.2	15.2	189	Y	Yes	1	NA
	n-Octatriacontane (C38)	7194-85-6	N	INITIAL	mg/Kg	493			29.1	29.1	189	Y	Yes	1	NA
	Norpristane (1650)	3892-00-0	N	INITIAL	mg/Kg	2630			22.9	22.9	189	Y	Yes	1	NA
	n-Pentacosane (C25)	629-99-2	N	INITIAL	mg/Kg	2820			11.1	11.1	189	Y	Yes	1	NA
	n-Pentadecane (C15)	629-62-9	N	INITIAL	mg/Kg	10500			47.1	47.1	189	Y	Yes	1	NA
	n-Pentatriacontane (C35)	630-07-9	N	INITIAL	mg/Kg	662			20.8	20.8	189	Y	Yes	1	NA
	n-Tetracontane (C40)	4181-95-7	N	INITIAL	mg/Kg	379			34.6	34.6	189	Y	Yes	1	NA
	n-Tetracosane (C24)	646-31-1	N	INITIAL	mg/Kg	3170			17.6	17.6	189	Y	Yes	1	NA
	n-Tetradecane (C14)	629-59-4	N	INITIAL	mg/Kg	11000			19.7	19.7	189	Y	Yes	1	NA
	n-Tetratriacontane (C34)	14167-59-0	N	INITIAL	mg/Kg	666			25.2	25.2	189	Y	Yes	1	NA
	n-Triacontane (C30)	638-68-6	N	INITIAL	mg/Kg	1070			18.9	18.9	189	Y	Yes	1	NA
	n-Tricosane (C23)	638-67-5	N	INITIAL	mg/Kg	3290			11.2	11.2	189	Y	Yes	1	NA
	n-Tridecane (C13)	629-50-5	N	INITIAL	mg/Kg	11600			110	110	189	Y	Yes	1	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8015D(M)	n-Tritriacontane (C33)	630-05-7	N	INITIAL	mg/Kg	692			19.0	19.0	189	Y	Yes	1	NA
	n-Undecane (C11)	1120-21-4	N	INITIAL	mg/Kg	10600			20.6	20.6	189	Y	Yes	1	NA
	Phytane	638-36-8	N	INITIAL	mg/Kg	2980			15.9	15.9	189	Y	Yes	1	NA
	Pristane	1921-70-6	N	INITIAL	mg/Kg	4220			30.5	30.5	189	Y	Yes	1	NA
	Total Petroleum Hydrocarbons (C9-C44)	TPH_C9C44	N	INITIAL	mg/Kg	775000			911	911	6240	Y	Yes	1	NA
	Total Saturated Hydrocarbons	TSATHC	N	INITIAL	mg/Kg	149000			8.17	8.17	189	Y	Yes	1	NA
SW8260D(M)	1,2,4,5-Tetramethylbenzene	95-93-2	N	DILUTION1	mg/Kg	270			3.00	3.00	38.6	Y	Yes	4	NA
	1,2,4-Trimethylbenzene	95-63-6	N	DILUTION1	mg/Kg	2510			4.00	4.00	38.6	Y	Yes	4	NA
	1,2-Dibromoethane	106-93-4	N	DILUTION1	mg/Kg		U		6.18	6.18	38.6	N	Yes	4	NA
	1,2-Dichloroethane	107-06-2	N	DILUTION1	mg/Kg		U		5.70	5.70	38.6	N	Yes	4	NA
	1,2-Diethylbenzene	135-01-3	N	DILUTION1	mg/Kg	33.7	J	RL	5.72	5.72	38.6	Y	Yes	4	NA
	1,2-Dimethyl-3-Ethylbenzene	933-98-2	N	DILUTION1	mg/Kg	112			2.45	2.45	38.6	Y	Yes	4	NA
	1,2-Dimethyl-4-Ethylbenzene	934-80-5	N	DILUTION1	mg/Kg	508			4.73	4.73	38.6	Y	Yes	4	NA
	1,3,5-Trimethylbenzene	108-67-8	N	DILUTION1	mg/Kg	808			4.44	4.44	38.6	Y	Yes	4	NA
	1,3-Dimethyl-2-Ethylbenzene	2870-04-4	N	DILUTION1	mg/Kg		U		2.88	2.88	38.6	N	Yes	4	NA
	1,3-Dimethyl-4-Ethylbenzene	874-41-9	N	DILUTION1	mg/Kg	296			3.75	3.75	38.6	Y	Yes	4	NA
	1,3-Dimethyl-5-Ethylbenzene	934-74-7	N	DILUTION1	mg/Kg	514			4.56	4.56	38.6	Y	Yes	4	NA
	1,4-Dimethyl-2-Ethylbenzene	1758-88-9	N	DILUTION1	mg/Kg	309			3.61	3.61	38.6	Y	Yes	4	NA
	1-Decene	872-05-9	N	DILUTION1	mg/Kg		U		5.02	5.02	38.6	N	Yes	4	NA
	1-Heptene/1,2-DMCP (trans)	1-	N	DILUTION1	mg/Kg	210			11.3	11.3	77.3	Y	Yes	4	NA
	1-Hexene	592-41-6	N	DILUTION1	mg/Kg		U		5.43	5.43	38.6	N	Yes	4	NA
	1-Methyl-2-Ethylbenzene	611-14-3	N	DILUTION1	mg/Kg	289			3.28	3.28	38.6	Y	Yes	4	NA
	1-Methyl-2-Isopropylbenzene	527-84-4	N	DILUTION1	mg/Kg	42.9			4.19	4.19	38.6	Y	Yes	4	NA
	1-Methyl-2-N-Propylbenzene	1074-17-5	N	DILUTION1	mg/Kg	347			4.81	4.81	38.6	Y	Yes	4	NA
	1-Methyl-3-Ethylbenzene	620-14-4	N	DILUTION1	mg/Kg	886			6.11	6.11	38.6	Y	Yes	4	NA
	1-Methyl-3-Isopropylbenzene	535-77-3	N	DILUTION1	mg/Kg	281			4.98	4.98	38.6	Y	Yes	4	NA
	1-Methyl-3-N-Propylbenzene	1074-43-7	N	DILUTION1	mg/Kg	830			3.90	3.90	38.6	Y	Yes	4	NA
	1-Methyl-4-Ethylbenzene	622-96-8	N	DILUTION1	mg/Kg	362			5.45	5.45	38.6	Y	Yes	4	NA
	1-Methyl-4-Isopropylbenzene	99-87-6	N	DILUTION1	mg/Kg	132			4.10	4.10	38.6	Y	Yes	4	NA
	1-Methyl-4-N-Propylbenzene	1074-55-1	N	DILUTION1	mg/Kg	288			4.83	4.83	38.6	Y	Yes	4	NA
	1-Methylnaphthalene	90-12-0	N	DILUTION1	mg/Kg	957			28.4	28.4	96.6	Y	Yes	4	NA
	1-Nonene	124-11-8	N	DILUTION1	mg/Kg		U		5.22	5.22	96.6	N	Yes	4	NA
	1-Octene	111-66-0	N	DILUTION1	mg/Kg		U		5.93	5.93	96.6	N	Yes	4	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
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Sample Date	4/8/2025 1:51:00 PM
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% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260D(M)	1-Pentene	109-67-1	N	DILUTION1	mg/Kg		U		7.05	7.05	38.6	N	Yes	4	NA
	2,2,3-Trimethylpentane	564-02-3	N	DILUTION1	mg/Kg	7.46	J	RL	6.70	6.70	38.6	Y	Yes	4	NA
	2,2-Dimethylpentane	590-35-2	N	DILUTION1	mg/Kg	9.33	J	RL	5.20	5.20	38.6	Y	Yes	4	NA
	2,3,3-Trimethylpentane	560-21-4	N	DILUTION1	mg/Kg	13.3	J	RL	7.67	7.67	38.6	Y	Yes	4	NA
	2,3,4-Trimethylpentane	565-75-3	N	DILUTION1	mg/Kg	24.0	J	RL	5.04	5.04	38.6	Y	Yes	4	NA
	2,3-Dimethylbutane	79-29-8	N	DILUTION1	mg/Kg	25.0	J	RL	16.0	16.0	38.6	Y	Yes	4	NA
	2,3-Dimethylhexane	584-94-1	N	DILUTION1	mg/Kg	76.8			9.37	9.37	38.6	Y	Yes	4	NA
	2,3-Dimethylpentane	565-59-3	N	DILUTION1	mg/Kg	100			5.12	5.12	38.6	Y	Yes	4	NA
	2,4-Dimethylhexane	589-43-5	N	DILUTION1	mg/Kg	86.7			4.70	4.70	38.6	Y	Yes	4	NA
	2,4-Dimethylpentane	108-08-7	N	DILUTION1	mg/Kg	35.3	J	RL	4.77	4.77	38.6	Y	Yes	4	NA
	2,5-Dimethylhexane	592-13-2	N	DILUTION1	mg/Kg	53.5			6.72	6.72	38.6	Y	Yes	4	NA
	2-Ethylthiophene	872-55-9	N	DILUTION1	mg/Kg	2.86	J	OT	4.23	4.23	38.6	Y	Yes	4	NA
	2-Methyl-1-Butene	563-46-2	N	DILUTION1	mg/Kg		U		6.01	6.01	38.6	N	Yes	4	NA
	2-Methylheptane	592-27-8	N	DILUTION1	mg/Kg	779			8.95	8.95	38.6	Y	Yes	4	NA
	2-Methylhexane	591-76-4	N	DILUTION1	mg/Kg	246			9.00	9.00	38.6	Y	Yes	4	NA
	2-Methylnaphthalene	91-57-6	N	DILUTION1	mg/Kg	1660			25.5	25.5	96.6	Y	Yes	4	NA
	2-Methylpentane	107-83-5	N	DILUTION1	mg/Kg	191			10.5	10.5	38.6	Y	Yes	4	NA
	2-Methylthiophene	554-14-3	N	DILUTION1	mg/Kg		U		3.28	3.28	38.6	N	Yes	4	NA
	3-Ethylhexane	619-99-8	N	DILUTION1	mg/Kg	48.7			6.92	6.92	38.6	Y	Yes	4	NA
	3-Methylheptane	589-81-1	N	DILUTION1	mg/Kg	414			5.51	5.51	38.6	Y	Yes	4	NA
	3-Methylhexane	589-34-4	N	DILUTION1	mg/Kg	276			6.18	6.18	38.6	Y	Yes	4	NA
	3-Methylpentane	96-14-0	N	DILUTION1	mg/Kg	124			6.12	6.12	38.6	Y	Yes	4	NA
	3-Methylthiophene	616-44-4	N	DILUTION1	mg/Kg		U		4.52	4.52	38.6	N	Yes	4	NA
	Benzene	71-43-2	N	DILUTION1	mg/Kg	51.9			5.89	5.89	38.6	Y	Yes	4	NA
	Benzothiophene	95-15-8	N	DILUTION1	mg/Kg		U		20.5	20.5	38.6	N	Yes	4	NA
	cis-2-Pentene	627-20-3	N	DILUTION1	mg/Kg		U		6.22	6.22	38.6	N	Yes	4	NA
	Cyclohexane	110-82-7	N	DILUTION1	mg/Kg	332			4.77	4.77	38.6	Y	Yes	4	NA
	Cyclopentane	287-92-3	N	DILUTION1	mg/Kg	40.7			10.0	10.0	38.6	Y	Yes	4	NA
	Decane (C10)	124-18-5	N	DILUTION2	mg/Kg	6900			26.2	26.2	193	Y	Yes	20	NA
	Dodecane (C12)	112-40-3	N	DILUTION2	mg/Kg	6780			63.5	63.5	483	Y	Yes	20	NA
	Ethylbenzene	100-41-4	N	DILUTION1	mg/Kg	267			4.17	4.17	38.6	Y	Yes	4	NA
	Ethyl-Tert-Butyl-Ether	637-92-3	N	DILUTION1	mg/Kg		U		5.86	5.86	38.6	N	Yes	4	NA
	Heptane	142-82-5	N	DILUTION1	mg/Kg	1050			6.72	6.72	38.6	Y	Yes	4	NA

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Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260D(M)	Indane	496-11-7	N	DILUTION1	mg/Kg	43.2			2.38	2.38	38.6	Y	Yes	4	NA
	Isooctane	540-84-1	N	DILUTION1	mg/Kg		U		4.21	4.21	38.6	N	Yes	4	NA
	Isopentane	78-78-4	N	DILUTION1	mg/Kg	170			7.07	7.07	38.6	Y	Yes	4	NA
	Isopropyl Ether	108-20-3	N	DILUTION1	mg/Kg		U		4.68	4.68	38.6	N	Yes	4	NA
	Isopropylbenzene	98-82-8	N	DILUTION1	mg/Kg	111			6.45	6.45	38.6	Y	Yes	4	NA
	Methyl tert butyl ether	1634-04-4	N	DILUTION1	mg/Kg		U		7.96	7.96	38.6	N	Yes	4	NA
	Methylcyclohexane	108-87-2	N	DILUTION1	mg/Kg	1020			5.22	5.22	38.6	Y	Yes	4	NA
	Methylcyclopentane	96-37-7	N	DILUTION1	mg/Kg	248			5.18	5.18	38.6	Y	Yes	4	NA
	MMT	12108-13-3	N	DILUTION1	mg/Kg		U		24.9	24.9	96.6	N	Yes	4	NA
	Naphthalene	91-20-3	N	DILUTION1	mg/Kg	374			16.1	16.1	38.6	Y	Yes	4	NA
	n-Butylbenzene	104-51-8	N	DILUTION1	mg/Kg	228			3.81	3.81	38.6	Y	Yes	4	NA
	n-Hexane	110-54-3	N	DILUTION1	mg/Kg	410			6.36	6.36	96.6	Y	Yes	4	NA
	Nonane (C9)	111-84-2	N	DILUTION2	mg/Kg	3760			30.0	30.0	193	Y	Yes	20	NA
	N-Pentylbenzene	538-68-1	N	DILUTION1	mg/Kg	32.5	J	RL	4.81	4.81	38.6	Y	Yes	4	NA
	n-Propylbenzene	103-65-1	N	DILUTION1	mg/Kg	349			3.42	3.42	38.6	Y	Yes	4	NA
	Octane	111-65-9	N	DILUTION1	mg/Kg	2170			4.54	4.54	38.6	Y	Yes	4	NA
	o-Xylene	95-47-6	N	DILUTION1	mg/Kg	904			4.04	4.04	38.6	Y	Yes	4	NA
	p/m-Xylene	179601-23-1	N	DILUTION1	mg/Kg	2130			7.36	7.36	77.3	Y	Yes	4	NA
	Pentane	109-66-0	N	DILUTION1	mg/Kg	264			12.0	12.0	38.6	Y	Yes	4	NA
	sec-Butylbenzene	135-98-8	N	DILUTION1	mg/Kg	156			5.00	5.00	38.6	Y	Yes	4	NA
	Styrene	100-42-5	N	DILUTION1	mg/Kg		U		3.90	3.90	38.6	N	Yes	4	NA
	Tertiary Butanol	75-65-0	N	DILUTION1	mg/Kg		U		156	156	483	N	Yes	4	NA
	Tertiary-Amyl Methyl Ether	994-05-8	N	DILUTION1	mg/Kg		U		4.75	4.75	38.6	N	Yes	4	NA
	Thiophene	110-02-1	N	DILUTION1	mg/Kg		U		5.49	5.49	38.6	N	Yes	4	NA
	Toluene	108-88-3	N	DILUTION1	mg/Kg	733			5.24	5.24	38.6	Y	Yes	4	NA
	trans-2-Pentene	646-04-8	N	DILUTION1	mg/Kg		U		5.22	5.22	38.6	N	Yes	4	NA
	Tridecane	629-50-5	N	DILUTION2	mg/Kg	6400			134	134	483	Y	Yes	20	NA
	Undecane	1120-21-4	N	DILUTION2	mg/Kg	7350			21.4	21.4	193	Y	Yes	20	NA
SW846 6010D	Aluminum, Total	7429-90-5	T	INITIAL	mg/Kg	10.6	J	RL	4.82	4.82	14.8	Y	Yes	1	NA
	Antimony, Total	7440-36-0	T	INITIAL	mg/Kg		U		5.71	5.71	7.42	N	Yes	1	NA
	Arsenic, Total	7440-38-2	T	INITIAL	mg/Kg		U		0.641	0.641	1.48	N	Yes	1	NA
	Barium, Total	7440-39-3	T	INITIAL	mg/Kg	6.32			0.157	0.157	1.48	Y	Yes	1	NA
	Beryllium, Total	7440-41-7	T	INITIAL	mg/Kg		U		0.082	0.082	0.742	N	Yes	1	NA

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Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 6010D	Cadmium, Total	7440-43-9	T	INITIAL	mg/Kg		U		0.082	0.082	1.48	N	Yes	1	NA
	Calcium, Total	7440-70-2	T	INITIAL	mg/Kg	73.1	J	LD	8.41	8.41	14.8	Y	Yes	1	NA
	Chromium, Total	7440-47-3	T	INITIAL	mg/Kg		U		1.26	1.26	1.48	N	Yes	1	NA
	Cobalt, Total	7440-48-4	T	INITIAL	mg/Kg		U		0.368	0.368	2.97	N	Yes	1	NA
	Copper, Total	7440-50-8	T	INITIAL	mg/Kg		U		0.337	0.337	1.48	N	Yes	1	NA
	Iron, Total	7439-89-6	T	INITIAL	mg/Kg	121	J	LD	1.56	1.56	7.42	Y	Yes	1	NA
	Lead, Total	7439-92-1	T	INITIAL	mg/Kg		U		0.353	0.353	7.42	N	Yes	1	NA
	Magnesium, Total	7439-95-4	T	INITIAL	mg/Kg	7.33	J	RL	2.42	2.42	14.8	Y	Yes	1	NA
	Manganese, Total	7439-96-5	T	INITIAL	mg/Kg	1.12	J	RL	0.795	0.795	1.48	Y	Yes	1	NA
	Nickel, Total	7440-02-0	T	INITIAL	mg/Kg		U		1.20	1.20	3.71	N	Yes	1	NA
	Potassium, Total	7440-09-7	T	INITIAL	mg/Kg		U		75.2	75.2	371	N	Yes	1	NA
	Selenium, Total	7782-49-2	T	INITIAL	mg/Kg		U		0.488	0.488	2.97	N	Yes	1	NA
	Silver, Total	7440-22-4	T	INITIAL	mg/Kg		U		0.442	0.442	0.742	N	Yes	1	NA
	Sodium, Total	7440-23-5	T	INITIAL	mg/Kg	700	J	LD	157	157	297	Y	Yes	1	NA
	Thallium, Total	7440-28-0	T	INITIAL	mg/Kg		U		1.34	1.34	2.97	N	Yes	1	NA
	Vanadium, Total	7440-62-2	T	INITIAL	mg/Kg		U		0.224	0.224	1.48	N	Yes	1	NA
	Zinc, Total	7440-66-6	T	INITIAL	mg/Kg		U		0.899	0.899	7.42	N	Yes	1	NA
SW846 7471B	Mercury, Total	7439-97-6	T	INITIAL	mg/Kg		U		0.049	0.049	0.075	N	Yes	1	NA
SW846 8270E-SIM (M)	13a,17b-20S-Ethyldiacholestane (S19)	ETHDIACHO	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	13b(H),17a(H)-20R-Diacholestane (S5)	82079-08-1	N	INITIAL	mg/Kg	17.0			0.630	0.630	1.89	Y	Yes	1	NA
	13b(H),17a(H)-20S-Diacholestane (S4)	DIACHOLES	N	INITIAL	mg/Kg	27.2			0.630	0.630	1.89	Y	Yes	1	NA
	13b,17a-20S-Methyldiacholestane (S8)	METHYLDIA	N	INITIAL	mg/Kg	19.3			0.630	0.630	1.89	Y	Yes	1	NA
	14a(H),17a(H)-20R-Ethylcholestane (S28)	ETHCHOLE0	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	14a(H),17a(H)-20S-Ethylcholestane (S25)	ETHCHOLE0	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	14a,17a-20R-Methylcholestane (S24)	METHDIACH	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	14a,17a-20S-Methylcholestane (S20)	METHDIACH	N	INITIAL	mg/Kg	7.80			0.630	0.630	1.89	Y	Yes	1	NA
	14b(H),17b(H)-20R-Cholestane (S14)	CHOLESTAN	N	INITIAL	mg/Kg	5.56			0.630	0.630	1.89	Y	Yes	1	NA
	14b(H),17b(H)-20R-Ethylcholestane (S26)	ETHCHOLE0	N	INITIAL	mg/Kg	5.88			0.630	0.630	1.89	Y	Yes	1	NA
	14b(H),17b(H)-20S-Cholestane (S15)	CHOLESTAN	N	INITIAL	mg/Kg	5.63			0.630	0.630	1.89	Y	Yes	1	NA
	14b(H),17b(H)-20S-Ethylcholestane (S27)	ETHCHOLE0	N	INITIAL	mg/Kg	4.60			0.630	0.630	1.89	Y	Yes	1	NA
	14b,17b-20R-Methylcholestane (S22)	METHCHOLE	N	INITIAL	mg/Kg	5.54			0.630	0.630	1.89	Y	Yes	1	NA
	14b,17b-20S-Methylcholestane (S23)	METHCHOLE	N	INITIAL	mg/Kg	5.34			0.630	0.630	1.89	Y	Yes	1	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	17a(H),21b(H)-25-Norhopane (T14b)	NORHOPAN	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	17a(H)20rc27/C29dia	CHOLETHDI	N	INITIAL	mg/Kg	15.8			0.630	0.630	1.89	Y	Yes	1	NA
	17a(H)20SC27/C29dia	CHOLETHDI	N	INITIAL	mg/Kg	21.1			0.630	0.630	1.89	Y	Yes	1	NA
	17a(H)-22,29,30-Trisnorhopane-TM (T12)	53584-59-1	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	17a(H)-Diahopane (X)	DIAHOPANE	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	17a/b,21b/a 28,30-Bisnorhopane (T14a)	BISNORHOP	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	18a(H)&18b(H)-Oleananes (T18)	OLEANANE0	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	18a(H)-30-Norneohopane-C29Ts (T16)	NORNEOHP	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	18a-22,29,30-Trisnorneohopane-TS (T11)	TRISNORNE	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	1-Methyldibenzothiophene(1MDT)	31317-07-4	N	INITIAL	mg/Kg	3.06			0.782	0.782	1.89	Y	Yes	1	NA
	1-Methylnaphthalene	90-12-0	N	INITIAL	mg/Kg	813			0.894	0.894	1.89	Y	Yes	1	NA
	1-Methylphenanthrene (1MP)	832-69-9	N	INITIAL	mg/Kg	93.1			0.940	0.940	1.89	Y	Yes	1	NA
	2,3,5-Trimethylnaphthalene	2245-38-7	N	INITIAL	mg/Kg	185			0.464	0.464	1.89	Y	Yes	1	NA
	2,6-Dimethylnaphthalene	581-42-0	N	INITIAL	mg/Kg	1230			0.674	0.674	1.89	Y	Yes	1	NA
	2/3-Methyldibenzothiophene(2MDT)	2/3-2MDT	N	INITIAL	mg/Kg	14.9			0.782	0.782	1.89	Y	Yes	1	NA
	2-Methylanthracene (2MA)	613-12-7	N	INITIAL	mg/Kg	2.73			0.940	0.940	1.89	Y	Yes	1	NA
	2-Methylnaphthalene	91-57-6	N	INITIAL	mg/Kg	1380			0.732	0.732	1.89	Y	Yes	1	NA
	2-Methylphenanthrene (2MP)	2531-84-2	N	INITIAL	mg/Kg	135			0.940	0.940	1.89	Y	Yes	1	NA
	30,31-Bishomohopane-22R (T27)	BISNORHOP	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30,31-Bishomohopane-22S (T26)	BISNORHOP	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30,31-Trishomohopane-22R (T31)	TRISHOMOH	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30,31-Trishomohopane-22S (T30)	TRISHOMOH	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30-Homohopane-22R (T22)	60305-22-8	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30-Homohopane-22S (T21)	60305-23-9	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30-Norhopane (T15)	53584-60-4	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	30-Normoretane (T17)	3258-87-5	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	3-Methylphenanthrene (3MP)	832-71-3	N	INITIAL	mg/Kg	114			0.940	0.940	1.89	Y	Yes	1	NA
	4-Methyldibenzothiophene(4MDT)	7372-88-5	N	INITIAL	mg/Kg	97.0			0.782	0.782	1.89	Y	Yes	1	NA
	9/4-Methylphenanthrene (9MP)	94_9MP	N	INITIAL	mg/Kg	123			0.940	0.940	1.89	Y	Yes	1	NA
	Acenaphthene	83-32-9	N	INITIAL	mg/Kg	43.8	J	IN	0.500	0.500	1.89	Y	Yes	1	NA
	Acenaphthylene	208-96-8	N	INITIAL	mg/Kg	5.97			0.542	0.542	1.89	Y	Yes	1	NA
	Anthracene	120-12-7	N	INITIAL	mg/Kg	6.07			0.585	0.585	1.89	Y	Yes	1	NA
	Benz(a)anthracene	56-55-3	N	INITIAL	mg/Kg	1.43	J	RL	0.579	0.579	1.89	Y	Yes	1	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	Benzo(a)fluoranthene	203-33-8	N	INITIAL	mg/Kg		U		0.563	0.563	1.89	N	Yes	1	NA
	Benzo(a)pyrene	50-32-8	N	INITIAL	mg/Kg	2.79			0.810	0.810	1.89	Y	Yes	1	NA
	Benzo(b)fluoranthene	205-99-2	N	INITIAL	mg/Kg	1.37	J	RL	0.738	0.738	1.89	Y	Yes	1	NA
	Benzo(b)fluorene	243-17-4	N	INITIAL	mg/Kg	3.77			0.822	0.822	1.89	Y	Yes	1	NA
	Benzo(e)Pyrene	192-97-2	N	INITIAL	mg/Kg	6.01			0.586	0.586	1.89	Y	Yes	1	NA
	Benzo(ghi)perylene	191-24-2	N	INITIAL	mg/Kg	0.461	J	OT	0.754	0.754	1.89	Y	Yes	1	NA
	Benzo(j)+(k)Fluoranthene	BENZO_KJ_	N	INITIAL	mg/Kg		U		0.563	0.563	1.89	N	Yes	1	NA
	Benzothiophene	95-15-8	N	INITIAL	mg/Kg	4.77			0.889	0.889	1.89	Y	Yes	1	NA
	Biphenyl	92-52-4	N	INITIAL	mg/Kg	336			0.877	0.877	1.89	Y	Yes	1	NA
	C1-Benzo(b)thiophenes	95-15-8C1	N	INITIAL	mg/Kg	18.3			0.889	0.889	1.89	Y	Yes	1	NA
	C1-Chrysenes	218-01-9C1	N	INITIAL	mg/Kg	80.3			0.574	0.574	1.89	Y	Yes	1	NA
	C1-Decalins	DECALINSC1	N	INITIAL	mg/Kg	657			0.713	0.713	1.89	Y	Yes	1	NA
	C1-Dibenzothiophenes	132-65-0C1	N	INITIAL	mg/Kg	123			0.782	0.782	1.89	Y	Yes	1	NA
	C1-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	45.5			0.746	0.746	1.89	Y	Yes	1	NA
	C1-Fluorenes	86-73-7C1	N	INITIAL	mg/Kg	295			0.757	0.757	1.89	Y	Yes	1	NA
	C1-Naphthalenes	91-20-3C1	N	INITIAL	mg/Kg	1350			0.816	0.816	1.89	Y	Yes	1	NA
	C1-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	36.4			0.794	0.794	1.89	Y	Yes	1	NA
	C1-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	475			0.940	0.940	1.89	Y	Yes	1	NA
	C23 Tricyclic Terpane (T4)	C23-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C24 Tetracyclic Terpane (T6a)	C24-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C24 Tricyclic Terpane (T5)	C24-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C25 Tricyclic Terpane (T6)	C25-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C26 Tricyclic Terpane-22R (T6c)	C26-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C26 Tricyclic Terpane-22S (T6b)	C26-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C26,20R+C27,20S TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	C27,20R TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	C28 Tricyclic Terpane-22R (T8)	C28-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C28 Tricyclic Terpane-22S (T7)	C28-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C28,20R TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	C28,20S TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA
	C29 Tricyclic Terpane-22R (T10)	C29-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C29 Tricyclic Terpane-22S (T9)	C29-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C2-Benzo(b)thiophenes	95-15-8C2	N	INITIAL	mg/Kg	8.79			0.889	0.889	1.89	Y	Yes	1	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
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Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
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% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	C2-Chrysenes	218-01-9C2	N	INITIAL	mg/Kg	103			0.574	0.574	1.89	Y	Yes	1	NA
	C2-Decalins	DECALINSC2	N	INITIAL	mg/Kg	767			0.713	0.713	1.89	Y	Yes	1	NA
	C2-Dibenzothiophenes	132-65-0C2	N	INITIAL	mg/Kg	277			0.782	0.782	1.89	Y	Yes	1	NA
	C2-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	62.3			0.746	0.746	1.89	Y	Yes	1	NA
	C2-Fluorenes	86-73-7C2	N	INITIAL	mg/Kg	417			0.757	0.757	1.89	Y	Yes	1	NA
	C2-Naphthalenes	91-20-3C2	N	INITIAL	mg/Kg	1850			0.816	0.816	1.89	Y	Yes	1	NA
	C2-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	67.8			0.794	0.794	1.89	Y	Yes	1	NA
	C2-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	541			0.940	0.940	1.89	Y	Yes	1	NA
	C30 Tricyclic Terpane-22R	C30-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C30 Tricyclic Terpane-22S	C30-	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	C3-Benzo(b)thiophenes	95-15-8C3	N	INITIAL	mg/Kg		U		0.889	0.889	1.89	N	Yes	1	NA
	C3-Chrysenes	218-01-9C3	N	INITIAL	mg/Kg	81.6			0.384	0.384	1.89	Y	Yes	1	NA
	C3-Decalins	DECALINSC3	N	INITIAL	mg/Kg	466			0.713	0.713	1.89	Y	Yes	1	NA
	C3-Dibenzothiophenes	132-65-0C3	N	INITIAL	mg/Kg	190			0.782	0.782	1.89	Y	Yes	1	NA
	C3-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	83.2			0.746	0.746	1.89	Y	Yes	1	NA
	C3-Fluorenes	86-73-7C3	N	INITIAL	mg/Kg	296			0.757	0.757	1.89	Y	Yes	1	NA
	C3-Naphthalenes	91-20-3C3	N	INITIAL	mg/Kg	1020			0.816	0.816	1.89	Y	Yes	1	NA
	C3-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	48.8			0.794	0.794	1.89	Y	Yes	1	NA
	C3-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	267			0.940	0.940	1.89	Y	Yes	1	NA
	C4-Benzo(b)thiophenes	95-15-8C4	N	INITIAL	mg/Kg		U		0.889	0.889	1.89	N	Yes	1	NA
	C4-Chrysenes	218-01-9C4	N	INITIAL	mg/Kg	52.7			0.574	0.574	1.89	Y	Yes	1	NA
	C4-Decalins	DECALINSC4	N	INITIAL	mg/Kg	490			0.713	0.713	1.89	Y	Yes	1	NA
	C4-Dibenzothiophenes	132-65-0C4	N	INITIAL	mg/Kg	76.6			0.782	0.782	1.89	Y	Yes	1	NA
	C4-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	74.4			0.746	0.746	1.89	Y	Yes	1	NA
	C4-Naphthalenes	91-20-3C4	N	INITIAL	mg/Kg	356			0.816	0.816	1.89	Y	Yes	1	NA
	C4-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	32.5			0.794	0.794	1.89	Y	Yes	1	NA
	C4-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	103			0.940	0.940	1.89	Y	Yes	1	NA
	Carbazole	86-74-8	N	INITIAL	mg/Kg	6.83			0.928	0.928	1.89	Y	Yes	1	NA
	Chrysene/Triphenylene	CHRY_TRIP	N	INITIAL	mg/Kg	28.3			0.574	0.574	1.89	Y	Yes	1	NA
	Cis/Trans-Decalin	CIS_TRANS_	N	INITIAL	mg/Kg	390			0.713	0.713	0.946	Y	Yes	1	NA
	Dibenz(a,h)+(a,c)anthracene	DIBENZ_AH_	N	INITIAL	mg/Kg	0.861	J	RL	0.767	0.767	1.89	Y	Yes	1	NA
	Dibenzofuran	132-64-9	N	INITIAL	mg/Kg	8.74			0.894	0.894	1.89	Y	Yes	1	NA
	Dibenzothiophene	132-65-0	N	INITIAL	mg/Kg	21.8			0.782	0.782	1.89	Y	Yes	1	NA

Lab Sample ID	L2521788-01
Sys Sample Code	GACO0408SC001
Sample Name	GACO0408SC001
Sample Date	4/8/2025 1:51:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	Fluoranthene	206-44-0	N	INITIAL	mg/Kg		U		0.902	0.902	1.89	N	Yes	1	NA
	Fluorene	86-73-7	N	INITIAL	mg/Kg	116			0.757	0.757	1.89	Y	Yes	1	NA
	Gammacerane/C32-Diahopane	GAMACERDI	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Hopane (T19)	13849-96-2	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Indeno(1,2,3-cd)Pyrene	193-39-5	N	INITIAL	mg/Kg		U		0.770	0.770	1.89	N	Yes	1	NA
	Moretane (T20)	1176-44-9	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	338			0.816	0.816	1.89	Y	Yes	1	NA
	Naphthobenzothiophene	61523-34-0	N	INITIAL	mg/Kg	6.71			0.794	0.794	1.89	Y	Yes	1	NA
	Pentakishomohopane-22R (T35)	PENTAKSHO	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Pentakishomohopane-22S (T34)	PENTAKSHO	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Perylene	198-55-0	N	INITIAL	mg/Kg	2.25			0.548	0.548	1.89	Y	Yes	1	NA
	Phenanthrene	85-01-8	N	INITIAL	mg/Kg	163			0.940	0.940	1.89	Y	Yes	1	NA
	Pyrene	129-00-0	N	INITIAL	mg/Kg	8.48			0.746	0.746	1.89	Y	Yes	1	NA
	Retene	483-65-8	N	INITIAL	mg/Kg		U		0.696	0.696	1.89	N	Yes	1	NA
	Tetrakishomohopane-22R (T33)	TETRAKSHO	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Tetrakishomohopane-22S (T32)	TETRAKSHO	N	INITIAL	mg/Kg		U		0.808	0.808	1.89	N	Yes	1	NA
	Unknown Sterane (S18)	UNKSTERAN	N	INITIAL	mg/Kg		U		0.630	0.630	1.89	N	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8015D(M)	2,6,10-Trimethyldodecane (1380)	3891-98-3	N	INITIAL	mg/Kg	2520			15.2	15.2	146	Y	Yes	1	NA
	2,6,10-Trimethyltridecane (1470)	TMTD1470	N	INITIAL	mg/Kg	3560			36.5	36.5	146	Y	Yes	1	NA
	n-Decane (C10)	124-18-5	N	INITIAL	mg/Kg	6430			15.5	15.5	146	Y	Yes	1	NA
	n-Docosane (C22)	629-97-0	N	INITIAL	mg/Kg	4040			6.33	6.33	146	Y	Yes	1	NA
	n-Dodecane (C12)	112-40-3	N	INITIAL	mg/Kg	12100			20.6	20.6	146	Y	Yes	1	NA
	n-Dotriacontane (C32)	544-85-4	N	INITIAL	mg/Kg	657			16.3	16.3	146	Y	Yes	1	NA
	n-Eicosane (C20)	112-95-8	N	INITIAL	mg/Kg	5350			8.15	8.15	146	Y	Yes	1	NA
	n-Heneicosane (C21)	629-94-7	N	INITIAL	mg/Kg	4460			9.83	9.83	146	Y	Yes	1	NA
	n-Hentriacontane (C31)	630-04-6	N	INITIAL	mg/Kg	873			15.6	15.6	146	Y	Yes	1	NA
	n-Heptacosane (C27)	593-49-7	N	INITIAL	mg/Kg	1760			11.5	11.5	146	Y	Yes	1	NA
	n-Heptadecane (C17)	629-78-7	N	INITIAL	mg/Kg	7960			17.7	17.7	146	Y	Yes	1	NA
	n-Heptatriacontane (C37)	7194-84-5	N	INITIAL	mg/Kg	377			24.8	24.8	146	Y	Yes	1	NA
	n-Hexacosane (C26)	630-01-3	N	INITIAL	mg/Kg	2550			16.1	16.1	146	Y	Yes	1	NA
	n-Hexadecane (C16)	544-76-3	N	INITIAL	mg/Kg	9510			14.1	14.1	146	Y	Yes	1	NA
	n-Hexatriacontane (C36)	630-06-8	N	INITIAL	mg/Kg	373			15.2	15.2	146	Y	Yes	1	NA
	n-Nonacosane (C29)	630-03-5	N	INITIAL	mg/Kg	1240			13.8	13.8	146	Y	Yes	1	NA
	n-Nonadecane (C19)	629-92-5	N	INITIAL	mg/Kg	5670			11.9	11.9	146	Y	Yes	1	NA
	n-Nonane (C9)	111-84-2	N	INITIAL	mg/Kg	3670			14.2	14.2	146	Y	Yes	1	NA
	n-Nonatriacontane (C39)	7194-86-7	N	INITIAL	mg/Kg	222			26.8	26.8	146	Y	Yes	1	NA
	n-Octacosane (C28)	630-02-4	N	INITIAL	mg/Kg	1360			48.9	48.9	146	Y	Yes	1	NA
	n-Octadecane (C18)	593-45-3	N	INITIAL	mg/Kg	6520			11.8	11.8	146	Y	Yes	1	NA
	n-Octatriacontane (C38)	7194-85-6	N	INITIAL	mg/Kg	355			22.6	22.6	146	Y	Yes	1	NA
	Norpristane (1650)	3892-00-0	N	INITIAL	mg/Kg	2730			17.7	17.7	146	Y	Yes	1	NA
	n-Pentacosane (C25)	629-99-2	N	INITIAL	mg/Kg	2840			8.58	8.58	146	Y	Yes	1	NA
	n-Pentadecane (C15)	629-62-9	N	INITIAL	mg/Kg	10900			36.5	36.5	146	Y	Yes	1	NA
	n-Pentatriacontane (C35)	630-07-9	N	INITIAL	mg/Kg	507			16.1	16.1	146	Y	Yes	1	NA
	n-Tetracontane (C40)	4181-95-7	N	INITIAL	mg/Kg	253			26.8	26.8	146	Y	Yes	1	NA
	n-Tetracosane (C24)	646-31-1	N	INITIAL	mg/Kg	3190			13.6	13.6	146	Y	Yes	1	NA
	n-Tetradecane (C14)	629-59-4	N	INITIAL	mg/Kg	11200			15.2	15.2	146	Y	Yes	1	NA
	n-Tetratriacontane (C34)	14167-59-0	N	INITIAL	mg/Kg	540			19.5	19.5	146	Y	Yes	1	NA
	n-Triacontane (C30)	638-68-6	N	INITIAL	mg/Kg	972			14.6	14.6	146	Y	Yes	1	NA
	n-Tricosane (C23)	638-67-5	N	INITIAL	mg/Kg	3330			8.72	8.72	146	Y	Yes	1	NA
	n-Tridecane (C13)	629-50-5	N	INITIAL	mg/Kg	12100			85.6	85.6	146	Y	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8015D(M)	n-Tritriacontane (C33)	630-05-7	N	INITIAL	mg/Kg	565			14.7	14.7	146	Y	Yes	1	NA
	n-Undecane (C11)	1120-21-4	N	INITIAL	mg/Kg	10200			16.0	16.0	146	Y	Yes	1	NA
	Phytane	638-36-8	N	INITIAL	mg/Kg	3030			12.3	12.3	146	Y	Yes	1	NA
	Pristane	1921-70-6	N	INITIAL	mg/Kg	4350			23.6	23.6	146	Y	Yes	1	NA
	Total Petroleum Hydrocarbons (C9-C44)	TPH_C9C44	N	INITIAL	mg/Kg	800000			706	706	4840	Y	Yes	1	NA
	Total Saturated Hydrocarbons	TSATHC	N	INITIAL	mg/Kg	148000			6.33	6.33	146	Y	Yes	1	NA
SW8260D(M)	1,2,4,5-Tetramethylbenzene	95-93-2	N	DILUTION1	mg/Kg	225			3.55	3.55	45.8	Y	Yes	5	NA
	1,2,4-Trimethylbenzene	95-63-6	N	DILUTION1	mg/Kg	2010			4.74	4.74	45.8	Y	Yes	5	NA
	1,2-Dibromoethane	106-93-4	N	DILUTION1	mg/Kg		U		7.33	7.33	45.8	N	Yes	5	NA
	1,2-Dichloroethane	107-06-2	N	DILUTION1	mg/Kg		U		6.76	6.76	45.8	N	Yes	5	NA
	1,2-Diethylbenzene	135-01-3	N	DILUTION1	mg/Kg	27.7	J	RL	6.78	6.78	45.8	Y	Yes	5	NA
	1,2-Dimethyl-3-Ethylbenzene	933-98-2	N	DILUTION1	mg/Kg	93.7			2.91	2.91	45.8	Y	Yes	5	NA
	1,2-Dimethyl-4-Ethylbenzene	934-80-5	N	DILUTION1	mg/Kg	415			5.61	5.61	45.8	Y	Yes	5	NA
	1,3,5-Trimethylbenzene	108-67-8	N	DILUTION1	mg/Kg	645			5.27	5.27	45.8	Y	Yes	5	NA
	1,3-Dimethyl-2-Ethylbenzene	2870-04-4	N	DILUTION1	mg/Kg		U		3.41	3.41	45.8	N	Yes	5	NA
	1,3-Dimethyl-4-Ethylbenzene	874-41-9	N	DILUTION1	mg/Kg	244			4.44	4.44	45.8	Y	Yes	5	NA
	1,3-Dimethyl-5-Ethylbenzene	934-74-7	N	DILUTION1	mg/Kg	428			5.41	5.41	45.8	Y	Yes	5	NA
	1,4-Dimethyl-2-Ethylbenzene	1758-88-9	N	DILUTION1	mg/Kg	252			4.28	4.28	45.8	Y	Yes	5	NA
	1-Decene	872-05-9	N	DILUTION1	mg/Kg		U		5.96	5.96	45.8	N	Yes	5	NA
	1-Heptene/1,2-DMCP (trans)	1-	N	DILUTION1	mg/Kg	122			13.4	13.4	91.6	Y	Yes	5	NA
	1-Hexene	592-41-6	N	DILUTION1	mg/Kg		U		6.44	6.44	45.8	N	Yes	5	NA
	1-Methyl-2-Ethylbenzene	611-14-3	N	DILUTION1	mg/Kg	226			3.90	3.90	45.8	Y	Yes	5	NA
	1-Methyl-2-Isopropylbenzene	527-84-4	N	DILUTION1	mg/Kg	35.3	J	RL	4.97	4.97	45.8	Y	Yes	5	NA
	1-Methyl-2-N-Propylbenzene	1074-17-5	N	DILUTION1	mg/Kg	277			5.70	5.70	45.8	Y	Yes	5	NA
	1-Methyl-3-Ethylbenzene	620-14-4	N	DILUTION1	mg/Kg	703			7.24	7.24	45.8	Y	Yes	5	NA
	1-Methyl-3-Isopropylbenzene	535-77-3	N	DILUTION1	mg/Kg	230			5.91	5.91	45.8	Y	Yes	5	NA
	1-Methyl-3-N-Propylbenzene	1074-43-7	N	DILUTION1	mg/Kg	676			4.63	4.63	45.8	Y	Yes	5	NA
	1-Methyl-4-Ethylbenzene	622-96-8	N	DILUTION1	mg/Kg	294			6.46	6.46	45.8	Y	Yes	5	NA
	1-Methyl-4-Isopropylbenzene	99-87-6	N	DILUTION1	mg/Kg	105			4.86	4.86	45.8	Y	Yes	5	NA
	1-Methyl-4-N-Propylbenzene	1074-55-1	N	DILUTION1	mg/Kg	236			5.73	5.73	45.8	Y	Yes	5	NA
	1-Methylnaphthalene	90-12-0	N	DILUTION1	mg/Kg	847			33.7	33.7	114	Y	Yes	5	NA
	1-Nonene	124-11-8	N	DILUTION1	mg/Kg		U		6.19	6.19	114	N	Yes	5	NA
	1-Octene	111-66-0	N	DILUTION1	mg/Kg		U		7.03	7.03	114	N	Yes	5	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260D(M)	1-Pentene	109-67-1	N	DILUTION1	mg/Kg		U		8.36	8.36	45.8	N	Yes	5	NA
	2,2,3-Trimethylpentane	564-02-3	N	DILUTION1	mg/Kg	4.31	J	OT	7.95	7.95	45.8	Y	Yes	5	NA
	2,2-Dimethylpentane	590-35-2	N	DILUTION1	mg/Kg		U		6.16	6.16	45.8	N	Yes	5	NA
	2,3,3-Trimethylpentane	560-21-4	N	DILUTION1	mg/Kg	9.21	J	RL	9.10	9.10	45.8	Y	Yes	5	NA
	2,3,4-Trimethylpentane	565-75-3	N	DILUTION1	mg/Kg	15.8	J	RL	5.98	5.98	45.8	Y	Yes	5	NA
	2,3-Dimethylbutane	79-29-8	N	DILUTION1	mg/Kg	11.4	J	OT	18.9	18.9	45.8	Y	Yes	5	NA
	2,3-Dimethylhexane	584-94-1	N	DILUTION1	mg/Kg	48.3			11.1	11.1	45.8	Y	Yes	5	NA
	2,3-Dimethylpentane	565-59-3	N	DILUTION1	mg/Kg	53.2			6.07	6.07	45.8	Y	Yes	5	NA
	2,4-Dimethylhexane	589-43-5	N	DILUTION1	mg/Kg	55.5			5.57	5.57	45.8	Y	Yes	5	NA
	2,4-Dimethylpentane	108-08-7	N	DILUTION1	mg/Kg	17.8	J	RL	5.66	5.66	45.8	Y	Yes	5	NA
	2,5-Dimethylhexane	592-13-2	N	DILUTION1	mg/Kg	34.1	J	RL	7.97	7.97	45.8	Y	Yes	5	NA
	2-Ethylthiophene	872-55-9	N	DILUTION1	mg/Kg	3.16	J	OT	5.02	5.02	45.8	Y	Yes	5	NA
	2-Methyl-1-Butene	563-46-2	N	DILUTION1	mg/Kg		U		7.13	7.13	45.8	N	Yes	5	NA
	2-Methylheptane	592-27-8	N	DILUTION1	mg/Kg	514			10.6	10.6	45.8	Y	Yes	5	NA
	2-Methylhexane	591-76-4	N	DILUTION1	mg/Kg	137			10.7	10.7	45.8	Y	Yes	5	NA
	2-Methylnaphthalene	91-57-6	N	DILUTION1	mg/Kg	1500			30.2	30.2	114	Y	Yes	5	NA
	2-Methylpentane	107-83-5	N	DILUTION1	mg/Kg	85.0			12.4	12.4	45.8	Y	Yes	5	NA
	2-Methylthiophene	554-14-3	N	DILUTION1	mg/Kg		U		3.90	3.90	45.8	N	Yes	5	NA
	3-Ethylhexane	619-99-8	N	DILUTION1	mg/Kg	35.2	J	RL	8.20	8.20	45.8	Y	Yes	5	NA
	3-Methylheptane	589-81-1	N	DILUTION1	mg/Kg	273			6.53	6.53	45.8	Y	Yes	5	NA
	3-Methylhexane	589-34-4	N	DILUTION1	mg/Kg	158			7.33	7.33	45.8	Y	Yes	5	NA
	3-Methylpentane	96-14-0	N	DILUTION1	mg/Kg	55.0			7.26	7.26	45.8	Y	Yes	5	NA
	3-Methylthiophene	616-44-4	N	DILUTION1	mg/Kg		U		5.36	5.36	45.8	N	Yes	5	NA
	Benzene	71-43-2	N	DILUTION1	mg/Kg	29.2	J	RL	6.99	6.99	45.8	Y	Yes	5	NA
	Benzothiophene	95-15-8	N	DILUTION1	mg/Kg		U		24.3	24.3	45.8	N	Yes	5	NA
	cis-2-Pentene	627-20-3	N	DILUTION1	mg/Kg		U		7.38	7.38	45.8	N	Yes	5	NA
	Cyclohexane	110-82-7	N	DILUTION1	mg/Kg	180			5.66	5.66	45.8	Y	Yes	5	NA
	Cyclopentane	287-92-3	N	DILUTION1	mg/Kg	19.2	J	RL	11.9	11.9	45.8	Y	Yes	5	NA
	Decane (C10)	124-18-5	N	DILUTION2	mg/Kg	7320			24.8	24.8	183	Y	Yes	20	NA
	Dodecane (C12)	112-40-3	N	DILUTION2	mg/Kg	7990			60.2	60.2	458	Y	Yes	20	NA
	Ethylbenzene	100-41-4	N	DILUTION1	mg/Kg	204			4.95	4.95	45.8	Y	Yes	5	NA
	Ethyl-Tert-Butyl-Ether	637-92-3	N	DILUTION1	mg/Kg		U		6.94	6.94	45.8	N	Yes	5	NA
	Heptane	142-82-5	N	DILUTION1	mg/Kg	634			7.97	7.97	45.8	Y	Yes	5	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW8260D(M)	Indane	496-11-7	N	DILUTION1	mg/Kg	35.0	J	RL	2.82	2.82	45.8	Y	Yes	5	NA
	Isooctane	540-84-1	N	DILUTION1	mg/Kg		U		5.00	5.00	45.8	N	Yes	5	NA
	Isopentane	78-78-4	N	DILUTION1	mg/Kg	77.6			8.39	8.39	45.8	Y	Yes	5	NA
	Isopropyl Ether	108-20-3	N	DILUTION1	mg/Kg		U		5.54	5.54	45.8	N	Yes	5	NA
	Isopropylbenzene	98-82-8	N	DILUTION1	mg/Kg	84.8			7.65	7.65	45.8	Y	Yes	5	NA
	Methyl tert butyl ether	1634-04-4	N	DILUTION1	mg/Kg		U		9.44	9.44	45.8	N	Yes	5	NA
	Methylcyclohexane	108-87-2	N	DILUTION1	mg/Kg	617			6.19	6.19	45.8	Y	Yes	5	NA
	Methylcyclopentane	96-37-7	N	DILUTION1	mg/Kg	129			6.14	6.14	45.8	Y	Yes	5	NA
	MMT	12108-13-3	N	DILUTION1	mg/Kg		U		29.6	29.6	114	N	Yes	5	NA
	Naphthalene	91-20-3	N	DILUTION1	mg/Kg	333			19.1	19.1	45.8	Y	Yes	5	NA
	n-Butylbenzene	104-51-8	N	DILUTION1	mg/Kg	188			4.51	4.51	45.8	Y	Yes	5	NA
	n-Hexane	110-54-3	N	DILUTION1	mg/Kg	243			7.54	7.54	114	Y	Yes	5	NA
	Nonane (C9)	111-84-2	N	DILUTION1	mg/Kg	2870			7.13	7.13	45.8	Y	Yes	5	NA
	N-Pentylbenzene	538-68-1	N	DILUTION1	mg/Kg	20.6	J	RL	5.70	5.70	45.8	Y	Yes	5	NA
	n-Propylbenzene	103-65-1	N	DILUTION1	mg/Kg	274			4.06	4.06	45.8	Y	Yes	5	NA
	Octane	111-65-9	N	DILUTION1	mg/Kg	1480			5.38	5.38	45.8	Y	Yes	5	NA
	o-Xylene	95-47-6	N	DILUTION1	mg/Kg	695			4.79	4.79	45.8	Y	Yes	5	NA
	p/m-Xylene	179601-23-1	N	DILUTION1	mg/Kg	1640			8.73	8.73	91.6	Y	Yes	5	NA
	Pentane	109-66-0	N	DILUTION1	mg/Kg	116			14.3	14.3	45.8	Y	Yes	5	NA
	sec-Butylbenzene	135-98-8	N	DILUTION1	mg/Kg	121			5.93	5.93	45.8	Y	Yes	5	NA
	Styrene	100-42-5	N	DILUTION1	mg/Kg		U		4.63	4.63	45.8	N	Yes	5	NA
	Tertiary Butanol	75-65-0	N	DILUTION1	mg/Kg		U		186	186	573	N	Yes	5	NA
	Tertiary-Amyl Methyl Ether	994-05-8	N	DILUTION1	mg/Kg		U		5.64	5.64	45.8	N	Yes	5	NA
	Thiophene	110-02-1	N	DILUTION1	mg/Kg		U		6.51	6.51	45.8	N	Yes	5	NA
	Toluene	108-88-3	N	DILUTION1	mg/Kg	512			6.21	6.21	45.8	Y	Yes	5	NA
	trans-2-Pentene	646-04-8	N	DILUTION1	mg/Kg		U		6.19	6.19	45.8	N	Yes	5	NA
	Tridecane	629-50-5	N	DILUTION2	mg/Kg	7770			127	127	458	Y	Yes	20	NA
	Undecane	1120-21-4	N	DILUTION2	mg/Kg	8300			20.3	20.3	183	Y	Yes	20	NA
SW846 6010D	Aluminum, Total	7429-90-5	T	INITIAL	mg/Kg	6.73	J	RL	4.60	4.60	14.2	Y	Yes	1	NA
	Antimony, Total	7440-36-0	T	INITIAL	mg/Kg		U		5.45	5.45	7.08	N	Yes	1	NA
	Arsenic, Total	7440-38-2	T	INITIAL	mg/Kg		U		0.612	0.612	1.42	N	Yes	1	NA
	Barium, Total	7440-39-3	T	INITIAL	mg/Kg	2.26			0.150	0.150	1.42	Y	Yes	1	NA
	Beryllium, Total	7440-41-7	T	INITIAL	mg/Kg		U		0.078	0.078	0.708	N	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
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Matrix	SOURCE
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% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 6010D	Cadmium, Total	7440-43-9	T	INITIAL	mg/Kg		U		0.078	0.078	1.42	N	Yes	1	NA
	Calcium, Total	7440-70-2	T	INITIAL	mg/Kg	48.2	J	LD	8.03	8.03	14.2	Y	Yes	1	NA
	Chromium, Total	7440-47-3	T	INITIAL	mg/Kg		U		1.20	1.20	1.42	N	Yes	1	NA
	Cobalt, Total	7440-48-4	T	INITIAL	mg/Kg		U		0.351	0.351	2.83	N	Yes	1	NA
	Copper, Total	7440-50-8	T	INITIAL	mg/Kg		U		0.322	0.322	1.42	N	Yes	1	NA
	Iron, Total	7439-89-6	T	INITIAL	mg/Kg	58.5	J	LD	1.49	1.49	7.08	Y	Yes	1	NA
	Lead, Total	7439-92-1	T	INITIAL	mg/Kg		U		0.337	0.337	7.08	N	Yes	1	NA
	Magnesium, Total	7439-95-4	T	INITIAL	mg/Kg	7.25	J	RL	2.31	2.31	14.2	Y	Yes	1	NA
	Manganese, Total	7439-96-5	T	INITIAL	mg/Kg		U		0.759	0.759	1.42	N	Yes	1	NA
	Nickel, Total	7440-02-0	T	INITIAL	mg/Kg		U		1.14	1.14	3.54	N	Yes	1	NA
	Potassium, Total	7440-09-7	T	INITIAL	mg/Kg		U		71.8	71.8	354	N	Yes	1	NA
	Selenium, Total	7782-49-2	T	INITIAL	mg/Kg		U		0.466	0.466	2.83	N	Yes	1	NA
	Silver, Total	7440-22-4	T	INITIAL	mg/Kg		U		0.422	0.422	0.708	N	Yes	1	NA
	Sodium, Total	7440-23-5	T	INITIAL	mg/Kg	398	J	LD	150	150	283	Y	Yes	1	NA
	Thallium, Total	7440-28-0	T	INITIAL	mg/Kg		U		1.28	1.28	2.83	N	Yes	1	NA
	Vanadium, Total	7440-62-2	T	INITIAL	mg/Kg		U		0.214	0.214	1.42	N	Yes	1	NA
	Zinc, Total	7440-66-6	T	INITIAL	mg/Kg		U		0.858	0.858	7.08	N	Yes	1	NA
SW846 7471B	Mercury, Total	7439-97-6	T	INITIAL	mg/Kg		U		0.047	0.047	0.072	N	Yes	1	NA
SW846 8270E-SIM (M)	13a,17b-20S-Ethyldiacholestane (S19)	ETHDIACHO	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	13b(H),17a(H)-20R-Diacholestane (S5)	82079-08-1	N	INITIAL	mg/Kg	17.9			0.488	0.488	1.46	Y	Yes	1	NA
	13b(H),17a(H)-20S-Diacholestane (S4)	DIACHOLES	N	INITIAL	mg/Kg	31.4			0.488	0.488	1.46	Y	Yes	1	NA
	13b,17a-20S-Methyldiacholestane (S8)	METHYLDIA	N	INITIAL	mg/Kg	21.6			0.488	0.488	1.46	Y	Yes	1	NA
	14a(H),17a(H)-20R-Ethylcholestane (S28)	ETHCHOLE0	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	14a(H),17a(H)-20S-Ethylcholestane (S25)	ETHCHOLE0	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	14a,17a-20R-Methylcholestane (S24)	METHDIACH	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	14a,17a-20S-Methylcholestane (S20)	METHDIACH	N	INITIAL	mg/Kg	6.40			0.488	0.488	1.46	Y	Yes	1	NA
	14b(H),17b(H)-20R-Cholestane (S14)	CHOLESTAN	N	INITIAL	mg/Kg	3.99			0.488	0.488	1.46	Y	Yes	1	NA
	14b(H),17b(H)-20R-Ethylcholestane (S26)	ETHCHOLE0	N	INITIAL	mg/Kg	4.25			0.488	0.488	1.46	Y	Yes	1	NA
	14b(H),17b(H)-20S-Cholestane (S15)	CHOLESTAN	N	INITIAL	mg/Kg	5.74			0.488	0.488	1.46	Y	Yes	1	NA
	14b(H),17b(H)-20S-Ethylcholestane (S27)	ETHCHOLE0	N	INITIAL	mg/Kg	5.12			0.488	0.488	1.46	Y	Yes	1	NA
	14b,17b-20R-Methylcholestane (S22)	METHCHOLE	N	INITIAL	mg/Kg	5.49			0.488	0.488	1.46	Y	Yes	1	NA
	14b,17b-20S-Methylcholestane (S23)	METHCHOLE	N	INITIAL	mg/Kg	7.11			0.488	0.488	1.46	Y	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	17a(H),21b(H)-25-Norhopane (T14b)	NORHOPAN	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	17a(H)20rc27/C29dia	CHOLETHDI	N	INITIAL	mg/Kg	17.1			0.488	0.488	1.46	Y	Yes	1	NA
	17a(H)20SC27/C29dia	CHOLETHDI	N	INITIAL	mg/Kg	18.6			0.488	0.488	1.46	Y	Yes	1	NA
	17a(H)-22,29,30-Trisnorhopane-TM (T12)	53584-59-1	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	17a(H)-Diahopane (X)	DIAHOPANE	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	17a/b,21b/a 28,30-Bisnorhopane (T14a)	BISNORHOP	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	18a(H)&18b(H)-Oleananes (T18)	OLEANANE0	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	18a(H)-30-Norneohopane-C29Ts (T16)	NORNEOHP	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	18a-22,29,30-Trisnorneohopane-TS (T11)	TRISNORNE	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	1-Methyldibenzothiophene(1MDT)	31317-07-4	N	INITIAL	mg/Kg	2.84			0.606	0.606	1.46	Y	Yes	1	NA
	1-Methylnaphthalene	90-12-0	N	INITIAL	mg/Kg	784			0.692	0.692	1.46	Y	Yes	1	NA
	1-Methylphenanthrene (1MP)	832-69-9	N	INITIAL	mg/Kg	92.4			0.728	0.728	1.46	Y	Yes	1	NA
	2,3,5-Trimethylnaphthalene	2245-38-7	N	INITIAL	mg/Kg	170			0.359	0.359	1.46	Y	Yes	1	NA
	2,6-Dimethylnaphthalene	581-42-0	N	INITIAL	mg/Kg	1220			0.522	0.522	1.46	Y	Yes	1	NA
	2/3-Methyldibenzothiophene(2MDT)	2/3-2MDT	N	INITIAL	mg/Kg	17.2			0.606	0.606	1.46	Y	Yes	1	NA
	2-Methylanthracene (2MA)	613-12-7	N	INITIAL	mg/Kg	2.43			0.728	0.728	1.46	Y	Yes	1	NA
	2-Methylnaphthalene	91-57-6	N	INITIAL	mg/Kg	1340			0.567	0.567	1.46	Y	Yes	1	NA
	2-Methylphenanthrene (2MP)	2531-84-2	N	INITIAL	mg/Kg	134			0.728	0.728	1.46	Y	Yes	1	NA
	30,31-Bishomohopane-22R (T27)	BISNORHOP	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30,31-Bishomohopane-22S (T26)	BISNORHOP	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30,31-Trishomohopane-22R (T31)	TRISHOMOH	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30,31-Trishomohopane-22S (T30)	TRISHOMOH	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30-Homohopane-22R (T22)	60305-22-8	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30-Homohopane-22S (T21)	60305-23-9	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30-Norhopane (T15)	53584-60-4	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	30-Normoretane (T17)	3258-87-5	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	3-Methylphenanthrene (3MP)	832-71-3	N	INITIAL	mg/Kg	115			0.728	0.728	1.46	Y	Yes	1	NA
	4-Methyldibenzothiophene(4MDT)	7372-88-5	N	INITIAL	mg/Kg	97.0			0.606	0.606	1.46	Y	Yes	1	NA
	9/4-Methylphenanthrene (9MP)	94_9MP	N	INITIAL	mg/Kg	123			0.728	0.728	1.46	Y	Yes	1	NA
	Acenaphthene	83-32-9	N	INITIAL	mg/Kg	45.1	J	IN	0.387	0.387	1.46	Y	Yes	1	NA
	Acenaphthylene	208-96-8	N	INITIAL	mg/Kg	5.78			0.419	0.419	1.46	Y	Yes	1	NA
	Anthracene	120-12-7	N	INITIAL	mg/Kg	5.78			0.453	0.453	1.46	Y	Yes	1	NA
	Benz(a)anthracene	56-55-3	N	INITIAL	mg/Kg	1.10	J	RL	0.448	0.448	1.46	Y	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
Sample Name	GACO0408SC002
Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	Benzo(a)fluoranthene	203-33-8	N	INITIAL	mg/Kg		U		0.436	0.436	1.46	N	Yes	1	NA
	Benzo(a)pyrene	50-32-8	N	INITIAL	mg/Kg	2.67			0.627	0.627	1.46	Y	Yes	1	NA
	Benzo(b)fluoranthene	205-99-2	N	INITIAL	mg/Kg	1.41	J	RL	0.572	0.572	1.46	Y	Yes	1	NA
	Benzo(b)fluorene	243-17-4	N	INITIAL	mg/Kg	3.78			0.637	0.637	1.46	Y	Yes	1	NA
	Benzo(e)Pyrene	192-97-2	N	INITIAL	mg/Kg	6.59			0.453	0.453	1.46	Y	Yes	1	NA
	Benzo(ghi)perylene	191-24-2	N	INITIAL	mg/Kg		U		0.584	0.584	1.46	N	Yes	1	NA
	Benzo(j)+(k)Fluoranthene	BENZO_KJ_	N	INITIAL	mg/Kg		U		0.436	0.436	1.46	N	Yes	1	NA
	Benzothiophene	95-15-8	N	INITIAL	mg/Kg	5.05			0.688	0.688	1.46	Y	Yes	1	NA
	Biphenyl	92-52-4	N	INITIAL	mg/Kg	324			0.679	0.679	1.46	Y	Yes	1	NA
	C1-Benzo(b)thiophenes	95-15-8C1	N	INITIAL	mg/Kg	18.5			0.688	0.688	1.46	Y	Yes	1	NA
	C1-Chrysenes	218-01-9C1	N	INITIAL	mg/Kg	81.3			0.444	0.444	1.46	Y	Yes	1	NA
	C1-Decalins	DECALINSC1	N	INITIAL	mg/Kg	597			0.552	0.552	1.46	Y	Yes	1	NA
	C1-Dibenzothiophenes	132-65-0C1	N	INITIAL	mg/Kg	120			0.606	0.606	1.46	Y	Yes	1	NA
	C1-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	44.2			0.578	0.578	1.46	Y	Yes	1	NA
	C1-Fluorenes	86-73-7C1	N	INITIAL	mg/Kg	297			0.586	0.586	1.46	Y	Yes	1	NA
	C1-Naphthalenes	91-20-3C1	N	INITIAL	mg/Kg	1300			0.632	0.632	1.46	Y	Yes	1	NA
	C1-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	36.6			0.615	0.615	1.46	Y	Yes	1	NA
	C1-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	477			0.728	0.728	1.46	Y	Yes	1	NA
	C23 Tricyclic Terpane (T4)	C23-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C24 Tetracyclic Terpane (T6a)	C24-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C24 Tricyclic Terpane (T5)	C24-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C25 Tricyclic Terpane (T6)	C25-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C26 Tricyclic Terpane-22R (T6c)	C26-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C26 Tricyclic Terpane-22S (T6b)	C26-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C26,20R+C27,20S TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	C27,20R TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	C28 Tricyclic Terpane-22R (T8)	C28-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C28 Tricyclic Terpane-22S (T7)	C28-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C28,20R TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	C28,20S TAS	TRIAROMRO	N	INITIAL	mg/Kg		U		0.488	0.488	1.46	N	Yes	1	NA
	C29 Tricyclic Terpane-22R (T10)	C29-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C29 Tricyclic Terpane-22S (T9)	C29-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C2-Benzo(b)thiophenes	95-15-8C2	N	INITIAL	mg/Kg	8.89			0.688	0.688	1.46	Y	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
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Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	C2-Chrysenes	218-01-9C2	N	INITIAL	mg/Kg	101			0.444	0.444	1.46	Y	Yes	1	NA
	C2-Decalins	DECALINSC2	N	INITIAL	mg/Kg	703			0.552	0.552	1.46	Y	Yes	1	NA
	C2-Dibenzothiophenes	132-65-0C2	N	INITIAL	mg/Kg	277			0.606	0.606	1.46	Y	Yes	1	NA
	C2-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	60.1			0.578	0.578	1.46	Y	Yes	1	NA
	C2-Fluorenes	86-73-7C2	N	INITIAL	mg/Kg	419			0.586	0.586	1.46	Y	Yes	1	NA
	C2-Naphthalenes	91-20-3C2	N	INITIAL	mg/Kg	1830			0.632	0.632	1.46	Y	Yes	1	NA
	C2-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	66.3			0.615	0.615	1.46	Y	Yes	1	NA
	C2-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	535			0.728	0.728	1.46	Y	Yes	1	NA
	C30 Tricyclic Terpane-22R	C30-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C30 Tricyclic Terpane-22S	C30-	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	C3-Benzo(b)thiophenes	95-15-8C3	N	INITIAL	mg/Kg		U		0.688	0.688	1.46	N	Yes	1	NA
	C3-Chrysenes	218-01-9C3	N	INITIAL	mg/Kg	92.0			0.298	0.298	1.46	Y	Yes	1	NA
	C3-Decalins	DECALINSC3	N	INITIAL	mg/Kg	440			0.552	0.552	1.46	Y	Yes	1	NA
	C3-Dibenzothiophenes	132-65-0C3	N	INITIAL	mg/Kg	190			0.606	0.606	1.46	Y	Yes	1	NA
	C3-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	81.2			0.578	0.578	1.46	Y	Yes	1	NA
	C3-Fluorenes	86-73-7C3	N	INITIAL	mg/Kg	291			0.586	0.586	1.46	Y	Yes	1	NA
	C3-Naphthalenes	91-20-3C3	N	INITIAL	mg/Kg	1010			0.632	0.632	1.46	Y	Yes	1	NA
	C3-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	51.1			0.615	0.615	1.46	Y	Yes	1	NA
	C3-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	265			0.728	0.728	1.46	Y	Yes	1	NA
	C4-Benzo(b)thiophenes	95-15-8C4	N	INITIAL	mg/Kg		U		0.688	0.688	1.46	N	Yes	1	NA
	C4-Chrysenes	218-01-9C4	N	INITIAL	mg/Kg	58.8			0.444	0.444	1.46	Y	Yes	1	NA
	C4-Decalins	DECALINSC4	N	INITIAL	mg/Kg	479			0.552	0.552	1.46	Y	Yes	1	NA
	C4-Dibenzothiophenes	132-65-0C4	N	INITIAL	mg/Kg	75.6			0.606	0.606	1.46	Y	Yes	1	NA
	C4-Fluoranthenes/Pyrenes	FLUORPYRC	N	INITIAL	mg/Kg	73.6			0.578	0.578	1.46	Y	Yes	1	NA
	C4-Naphthalenes	91-20-3C4	N	INITIAL	mg/Kg	355			0.632	0.632	1.46	Y	Yes	1	NA
	C4-Naphthobenzothiophenes	NAPBENZOT	N	INITIAL	mg/Kg	32.2			0.615	0.615	1.46	Y	Yes	1	NA
	C4-Phenanthrenes/Anthracenes	PHENANTHC	N	INITIAL	mg/Kg	101			0.728	0.728	1.46	Y	Yes	1	NA
	Carbazole	86-74-8	N	INITIAL	mg/Kg	5.83			0.719	0.719	1.46	Y	Yes	1	NA
	Chrysene/Triphenylene	CHRY_TRIP	N	INITIAL	mg/Kg	27.9			0.444	0.444	1.46	Y	Yes	1	NA
	Cis/Trans-Decalin	CIS_TRANS_	N	INITIAL	mg/Kg	338			0.552	0.552	0.733	Y	Yes	1	NA
	Dibenz(a,h)+(a,c)anthracene	DIBENZ_AH_	N	INITIAL	mg/Kg		U		0.594	0.594	1.46	N	Yes	1	NA
	Dibenzofuran	132-64-9	N	INITIAL	mg/Kg	7.99			0.692	0.692	1.46	Y	Yes	1	NA
	Dibenzothiophene	132-65-0	N	INITIAL	mg/Kg	22.1			0.606	0.606	1.46	Y	Yes	1	NA

Lab Sample ID	L2521788-02
Sys Sample Code	GACO0408SC002
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Sample Date	4/8/2025 1:53:00 PM
Sample Type	N
Matrix	SOURCE
Parent Sample	
% Moisture	

Analytic Method	Chemical Name	CAS Rn	Fraction	Test Type	Result Unit	Final Result	Final Qual	Reason code	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW846 8270E-SIM (M)	Fluoranthene	206-44-0	N	INITIAL	mg/Kg		U		0.698	0.698	1.46	N	Yes	1	NA
	Fluorene	86-73-7	N	INITIAL	mg/Kg	118			0.586	0.586	1.46	Y	Yes	1	NA
	Gammacerane/C32-Diahopane	GAMACERDI	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Hopane (T19)	13849-96-2	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Indeno(1,2,3-cd)Pyrene	193-39-5	N	INITIAL	mg/Kg		U		0.596	0.596	1.46	N	Yes	1	NA
	Moretane (T20)	1176-44-9	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Naphthalene	91-20-3	N	INITIAL	mg/Kg	315			0.632	0.632	1.46	Y	Yes	1	NA
	Naphthobenzothiophene	61523-34-0	N	INITIAL	mg/Kg	7.26			0.615	0.615	1.46	Y	Yes	1	NA
	Pentakishomohopane-22R (T35)	PENTAKSHO	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Pentakishomohopane-22S (T34)	PENTAKSHO	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Perylene	198-55-0	N	INITIAL	mg/Kg	1.73			0.424	0.424	1.46	Y	Yes	1	NA
	Phenanthrene	85-01-8	N	INITIAL	mg/Kg	163			0.728	0.728	1.46	Y	Yes	1	NA
	Pyrene	129-00-0	N	INITIAL	mg/Kg	8.42			0.578	0.578	1.46	Y	Yes	1	NA
	Retene	483-65-8	N	INITIAL	mg/Kg		U		0.539	0.539	1.46	N	Yes	1	NA
	Tetrakishomohopane-22R (T33)	TETRAKSHO	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Tetrakishomohopane-22S (T32)	TETRAKSHO	N	INITIAL	mg/Kg		U		0.625	0.625	1.46	N	Yes	1	NA
	Unknown Sterane (S18)	UNKSTERAN	N	INITIAL	mg/Kg	11.0			0.488	0.488	1.46	Y	Yes	1	NA

Attachment C: Source Sample Summary Tables

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	**Analytical Method**	**CAS_NO**	**ANALYTE**	**Residential Soil Screening Level (RSSL)**	**Protection of Groundwater Soil Screening Level (PGSSL)**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Measured in Sample?**	**In ECMC list for soil and surface water?**	**Number of Detects**
Inorganic	2540 G-2011	--	Total Solids			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	9050AMod	--	Specific Conductance			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	CALC	--	Sodium Absorption Ratio (SAR)			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	E130.1	--	Hardness (colorimetric) as CaCO3			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM 2540C	--	Dissolved Solids			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM2320B	--	Alkalinity			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM2320B	--	Alkalinity,Bicarbonate			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM2320B	--	Alkalinity,Carbonate			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM2540D	--	Suspended Solids			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SM5540C	--	MBAS			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SW9050	--	CONDUCTIVITY			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SW9081	--	Cation Exchange Capacity			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	USDA 4F	--	Exchangeable Sodium Percentage			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	350.1	7664-41-7	Ammonia Nitrogen			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	9045D	--	pH			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	TOC by Walkley Black		TOC by Walkley Black			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Inorganic	SW9056	24959-67-9	Bromide			18.1	DET	mg/Kg	4.1	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	1
Inorganic	SW9056	16887-00-6	Chloride			1930	DET	mg/Kg	186	DET	mg/Kg	--	--	--	--	--	--	yes	**yes**	2
Inorganic	SW9056	16984-48-8	Fluoride			0.909	DET	mg/Kg	0.706	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	1
Inorganic	SW9056	14797-55-8	Nitrate as (N)			0.952	ND	mg/Kg	0.952	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Inorganic	SW9056	14797-65-0	Nitrite as (N)			0.606	ND	mg/Kg	0.606	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Inorganic	SW9056	14808-79-8	Sulfate			30.2	DET	mg/Kg	8.24	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	1
Inorganic	CALC	TN	Total Nitrogen			0.606	ND	mg/Kg	0.606	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Inorganic	E365.4	7723-14-0	Phosphorus,Total			16	ND	mg/Kg	16	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Inorganic	SM4500-NORG-D	7727-37-9TKN	Kjeldahl Nitrogen, TKN			15.2	ND	mg/Kg	15.2	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Metals	SW6010	7429-90-5	Aluminum			69.5	DET	mg/Kg	15.5	DET	mg/Kg	10.6	DET	mg/kg	6.73	DET	mg/kg	yes	**yes**	4
Metals	SW6010	7440-36-0	Antimony			0.691	ND	mg/Kg	0.691	ND	mg/Kg	7.42	ND	mg/kg	7.08	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-38-2	Arsenic	0.68	0.29	0.837	ND	mg/Kg	0.837	ND	mg/Kg	1.48	ND	mg/kg	1.42	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-39-3	Barium	15000	82	11.9	DET	mg/Kg	2.27	DET	mg/Kg	6.32	DET	mg/kg	2.26	DET	mg/kg	yes	**yes**	4
Metals	SW6010	7440-41-7	Beryllium			0.0477	ND	mg/Kg	0.0477	ND	mg/Kg	0.742	ND	mg/kg	0.708	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-43-9	Cadmium	71	0.38	0.0653	ND	mg/Kg	0.0653	ND	mg/Kg	1.48	ND	mg/kg	1.42	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-70-2	Calcium			125	DET	mg/Kg	30.2	DET	mg/Kg	73.1	DET	mg/kg	48.2	DET	mg/kg	yes	**yes**	4
Metals	SW6010	7440-47-3	Chromium			0.617	DET	mg/Kg	0.214	ND	mg/Kg	1.48	ND	mg/kg	1.42	ND	mg/kg	yes	**yes**	1
Metals	SW6010	7440-48-4	Cobalt			0.177	ND	mg/Kg	0.177	ND	mg/Kg	2.97	ND	mg/kg	2.83	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-50-8	Copper	3100	46	0.376	DET	mg/Kg	0.357	ND	mg/Kg	1.48	ND	mg/kg	1.42	ND	mg/kg	yes	**yes**	1
Metals	SW6010	7439-89-6	Iron			203	DET	mg/Kg	26.1	DET	mg/Kg	121	DET	mg/kg	58.5	DET	mg/kg	yes	**yes**	4
Metals	SW6010	7439-92-1	Lead	400	14	0.326	ND	mg/Kg	0.326	ND	mg/Kg	7.42	ND	mg/kg	7.08	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7439-95-4	Magnesium			19.9	ND	mg/Kg	19.9	ND	mg/Kg	7.33	DET	mg/kg	7.25	DET	mg/kg	yes	**yes**	2
Metals	SW6010	7439-96-5	Manganese			1.54	DET	mg/Kg	0.299	DET	mg/Kg	1.12	DET	mg/kg	1.42	ND	mg/kg	yes	**yes**	3
Metals	SW6010	7440-02-0	Nickel	1500	26	0.2	ND	mg/Kg	0.2	ND	mg/Kg	3.71	ND	mg/kg	3.54	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-09-7	Potassium			45.1	DET	mg/Kg	20.9	ND	mg/Kg	371	ND	mg/kg	354	ND	mg/kg	yes	**yes**	1
Metals	SW6010	7782-49-2	Selenium	390	0.26	1.07	ND	mg/Kg	1.07	ND	mg/Kg	2.97	ND	mg/kg	2.83	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-22-4	Silver	390	0.8	0.127	ND	mg/Kg	0.127	ND	mg/Kg	0.742	ND	mg/kg	0.708	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-23-5	Sodium			1250	DET	mg/Kg	130	DET	mg/Kg	700	DET	mg/kg	398	DET	mg/kg	yes	**yes**	4
Metals	SW6010	7440-28-0	Thallium			0.518	ND	mg/Kg	0.518	ND	mg/Kg	2.97	ND	mg/kg	2.83	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-62-2	Vanadium			0.383	ND	mg/Kg	0.383	ND	mg/Kg	1.48	ND	mg/kg	1.42	ND	mg/kg	yes	**yes**	0
Metals	SW6010	7440-66-6	Zinc	23000	370	1.88	DET	mg/Kg	2.33	DET	mg/Kg	7.42	ND	mg/kg	7.08	ND	mg/kg	yes	**yes**	2

Notes

a = Total Soil TPH (used for comparative purposes)

Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	**Analytical Method**	**CAS_NO**	**ANALYTE**	**Residential Soil Screening Level (RSSL)**	**Protection of Groundwater Soil Screening Level (PGSSL)**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Measured in Sample?**	**In ECMC list for soil and surface water?**	**Number of Detects**
Metals	SW7199	18540-29-9	Hexavalent Chromium	0.3	0.00067	0.379	R	mg/Kg	--	--	--	--	--	--	--	--	--	yes	**yes**	0
Metals	SW7471	7439-97-6	Mercury			0.0206	ND	mg/Kg	0.0206	ND	mg/Kg	--	--	--	--	--	--	yes	**yes**	0
Metals	CALC	7440-42-8	Boron			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	**yes**	
Metals	D5174	7440-61-1	Uranium			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	14331-83-0	Actinium-228 (Ra-228)			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	14913-49-6	Bismuth-212			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	14733-03-0	Bismuth-214 (Ra-226)			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	15092-94-1	Lead-212			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	15067-28-4	Lead-214			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	13966-00-2	Potassium-40			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	7440-14-4	RADIUM-226			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	15262-20-1	RADIUM-228			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	14913-50-9	Thallium-208			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	15065-10-8	Thorium-234 (U-238)			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
Rad	E901.1	15117-96-1	Uranium-235			--	--	--	--	--	--	--	--	--	--	--	--	analysis not requested	yes	
TPH	EPA 8015D(M)	3891-98-3	2,6,10 Trimethyldodecane (1380)			--	--	--	--	--	--	2480	DET	mg/kg	2520	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	TMTD1470	2,6,10-Trimethyltridecane (1470)			--	--	--	--	--	--	3510	DET	mg/kg	3560	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	124-18-5	Decane (C10)			--	--	--	--	--	--	7190	DET	mg/kg	6430	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	112-40-3	Dodecane (C12)			--	--	--	--	--	--	12100	DET	mg/kg	12100	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-97-0	n-Docosane (C22)			--	--	--	--	--	--	3930	DET	mg/kg	4040	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	544-85-4	n-Dotriacontane (C32)			--	--	--	--	--	--	789	DET	mg/kg	657	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	112-95-8	n-Eicosane (C20)			--	--	--	--	--	--	5240	DET	mg/kg	5350	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-94-7	n-Heneicosane (C21)			--	--	--	--	--	--	4360	DET	mg/kg	4460	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-04-6	n-Hentriacontane (C31)			--	--	--	--	--	--	989	DET	mg/kg	873	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	593-49-7	n-Heptacosane (C27)			--	--	--	--	--	--	1880	DET	mg/kg	1760	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-78-7	n-Heptadecane (C17)			--	--	--	--	--	--	7730	DET	mg/kg	7960	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	7194-84-5	n-Heptatriacontane (C37)			--	--	--	--	--	--	529	DET	mg/kg	377	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-01-3	n-Hexacosane (C26)			--	--	--	--	--	--	2550	DET	mg/kg	2550	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	544-76-3	n-Hexadecane (C16)			--	--	--	--	--	--	9200	DET	mg/kg	9510	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-06-8	n-Hexatriacontane (C36)			--	--	--	--	--	--	489	DET	mg/kg	373	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-03-5	n-Nonacosane (C29)			--	--	--	--	--	--	1390	DET	mg/kg	1240	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-92-5	n-Nonadecane (C19)			--	--	--	--	--	--	5490	DET	mg/kg	5670	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	7194-86-7	n-Nonatriacontane (C39)			--	--	--	--	--	--	360	DET	mg/kg	222	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-02-4	n-Octacosane (C28)			--	--	--	--	--	--	1390	DET	mg/kg	1360	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	593-45-3	n-Octadecane (C18)			--	--	--	--	--	--	6330	DET	mg/kg	6520	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	7194-85-6	n-Octatriacontane (C38)			--	--	--	--	--	--	493	DET	mg/kg	355	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	111-84-2	Nonane (C9)			--	--	--	--	--	--	4520	DET	mg/kg	3670	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	3892-00-0	Norpristane (1650)			--	--	--	--	--	--	2630	DET	mg/kg	2730	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-99-2	n-Pentacosane (C25)			--	--	--	--	--	--	2820	DET	mg/kg	2840	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-62-9	n-Pentadecane (C15)			--	--	--	--	--	--	10500	DET	mg/kg	10900	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	630-07-9	n-Pentatriacontane (C35)			--	--	--	--	--	--	662	DET	mg/kg	507	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	4181-95-7	n-Tetracontane (C40)			--	--	--	--	--	--	379	DET	mg/kg	253	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	646-31-1	n-Tetracosane (C24)			--	--	--	--	--	--	3170	DET	mg/kg	3190	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-59-4	n-Tetradecane (C14)			--	--	--	--	--	--	11000	DET	mg/kg	11200	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	14167-59-0	n-Tetratriacontane (C34)			--	--	--	--	--	--	666	DET	mg/kg	540	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	638-68-6	n-Triacontane (C30)			--	--	--	--	--	--	1070	DET	mg/kg	972	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	638-67-5	n-Tricosane (C23)			--	--	--	--	--	--	3290	DET	mg/kg	3330	DET	mg/kg	yes	no	2

Notes

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Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

			Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	**Analytical Method**	**CAS_NO**	**ANALYTE**	**Residential Soil Screening Level (RSSL)**	**Protection of Groundwater Soil Screening Level (PGSSL)**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Result**	**Detection**	**Units**	**Measured in Sample?**	**In ECMC list for soil and surface water?**	**Number of Detects**
TPH	EPA 8015D(M)	630-05-7	n-Tritriacontane (C33)			--	--	--	--	--	--	692	DET	mg/kg	565	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	638-36-8	Phytane			--	--	--	--	--	--	2980	DET	mg/kg	3030	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	1921-70-6	Pristane			--	--	--	--	--	--	4220	DET	mg/kg	4350	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	--	Total Petroleum Hydrocarbons (C9-C44)			--	--	--	--	--	--	775000	DET	mg/kg	800000	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	TSATHC	Total Saturated Hydrocarbons			--	--	--	--	--	--	149000	DET	mg/kg	148000	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	629-50-5	Tridecane			--	--	--	--	--	--	11600	DET	mg/kg	12100	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	1120-21-4	Undecane			--	--	--	--	--	--	10600	DET	mg/kg	10200	DET	mg/kg	yes	no	2
TPH	EPA 8015D(M)	8006-61-9	TPH (GC/FID) Low Fraction	500a		125	DET	mg/Kg	105	DET	mg/Kg	125	DET	mg/kg	105	DET	mg/kg	yes	yes	4
TPH	EPA 8015D(M)	DROC10C28	C10-C28 Diesel Range			61200	DET	mg/Kg	148000	DET	mg/Kg	61200	DET	mg/kg	148000	DET	mg/kg	yes	yes	4
TPH	EPA 8015D(M)	MORC28C36	C28-C36 Motor Oil Range			25000	DET	mg/Kg	60900	DET	mg/Kg	25000	DET	mg/kg	60900	DET	mg/kg	yes	yes	4
TPH	EPA 8015D(M)	--	C6-C10 Gasoline Range Organic			--	--	--	--	--	--	--	--	--	--	--	--	not reported	yes	
TPH	EPA 8015D(M)	--	Residual Range Organics (C28-C40)			--	--	--	--	--	--	--	--	--	--	--	--	not reported	yes	
VOC	SW8260	630-20-6	1,1,1,2-Tetrachloroethane			0.0379	ND	mg/Kg	0.019	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	71-55-6	1,1,1-Trichloroethane			0.0369	ND	mg/Kg	0.0185	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	79-34-5	1,1,2,2-Tetrachloroethane			0.0278	ND	mg/Kg	0.0139	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	79-00-5	1,1,2-Trichloroethane			0.0239	ND	mg/Kg	0.0198	DET	mg/Kg	--	--	--	--	--	--	yes	yes	1
VOC	SW8260	76-13-1	1,1,2-Trichlorotrifluoroethane			0.0302	ND	mg/Kg	0.0151	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-34-3	1,1-Dichloroethane			0.0196	ND	mg/Kg	0.00982	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-35-4	1,1-Dichloroethene			0.0242	ND	mg/Kg	0.0121	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	563-58-6	1,1-Dichloropropene			0.0324	ND	mg/Kg	0.0162	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	87-61-6	1,2,3-Trichlorobenzene			0.293	ND	mg/Kg	0.147	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	96-18-4	1,2,3-Trichloropropane			0.0648	ND	mg/Kg	0.0324	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	526-73-8	1,2,3-Trimethylbenzene			2.03	DET	mg/Kg	1.83	DET	mg/Kg	--	--	--	--	--	--	yes	yes	2
VOC	SW8260	95-93-2	1,2,4,5-Tetramethylbenzene			--	--	--	--	--	--	270	DET	mg/kg	225	DET	mg/kg	yes	no	2
VOC	SW8260	120-82-1	1,2,4-Trichlorobenzene			0.176	ND	mg/Kg	0.088	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	95-63-6	1,2,4-Trimethylbenzene	30	0.0081	6.56	DET	mg/Kg	5.84	DET	mg/Kg	2510	DET	mg/kg	2010	DET	mg/kg	yes	yes	4
VOC	SW8260	96-12-8	1,2-Dibromo-3-Chloropropane			0.156	ND	mg/Kg	0.078	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	106-93-4	1,2-Dibromoethane			0.0259	ND	mg/Kg	0.013	ND	mg/Kg	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	yes	0
VOC	SW8260	95-50-1	1,2-Dichlorobenzene			0.017	ND	mg/Kg	0.0085	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	107-06-2	1,2-Dichloroethane			0.026	ND	mg/Kg	0.013	ND	mg/Kg	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	yes	0
VOC	SW8260	78-87-5	1,2-Dichloropropane			0.0568	ND	mg/Kg	0.0284	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	135-01-3	1,2-Diethylbenzene			--	--	--	--	--	--	33.7	DET	mg/kg	27.7	DET	mg/kg	yes	no	2
VOC	SW8260	933-98-2	1,2-Dimethyl-3-ethylbenzene			--	--	--	--	--	--	112	DET	mg/kg	93.7	DET	mg/kg	yes	no	2
VOC	SW8260	934-80-5	1,2-Dimethyl-4-ethylbenzene			--	--	--	--	--	--	508	DET	mg/kg	415	DET	mg/kg	yes	no	2
VOC	SW8260	108-67-8	1,3,5-Trimethylbenzene	27	0.0087	1.91	DET	mg/Kg	1.55	DET	mg/Kg	808	DET	mg/kg	645	DET	mg/kg	yes	yes	4
VOC	SW8260	541-73-1	1,3-Dichlorobenzene			0.024	ND	mg/Kg	0.012	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	142-28-9	1,3-Dichloropropane			0.02	ND	mg/Kg	0.01	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	106-46-7	1,4-Dichlorobenzene			0.028	ND	mg/Kg	0.014	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	2870-04-4	1,3-Dimethyl-2-ethylbenzene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	874-41-9	1,3-Dimethyl-4-ethylbenzene			--	--	--	--	--	--	296	DET	mg/kg	244	DET	mg/kg	yes	no	2
VOC	SW8260	934-74-7	1,3-Dimethyl-5-ethylbenzene			--	--	--	--	--	--	514	DET	mg/kg	428	DET	mg/kg	yes	no	2
VOC	SW8260	1758-88-9	1,4-Dimethyl-2-ethylbenzene			--	--	--	--	--	--	309	DET	mg/kg	252	DET	mg/kg	yes	no	2
VOC	SW8260	872-05-9	1-Decene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	592-76-7/822-50-4	1-Heptene/1,2-DMCP (trans)			--	--	--	--	--	--	210	DET	mg/kg	122	DET	mg/kg	yes	no	2
VOC	SW8260	592-41-6	1-Hexene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	611-14-3	1-Methyl-2-ethylbenzene			--	--	--	--	--	--	289	DET	mg/kg	226	DET	mg/kg	yes	no	2
VOC	SW8260	527-84-4	1-Methyl-2-isopropylbenzene			--	--	--	--	--	--	42.9	DET	mg/kg	35.3	DET	mg/kg	yes	no	2

Notes

a = Total Soil TPH (used for comparative purposes)

Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001				GACO0408SC002				GACO0408SC001				GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units		Result	Detection	Units		Result	Detection	Units		Result	Detection	Units		Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
VOC	SW8260	1074-17-5	1-methyl-2-n-propylbenzene			--	--	--		--	--	--		347	DET	mg/kg		277	DET	mg/kg		yes	no	2
VOC	SW8260	620-14-4	1-Methyl-3-ethylbenzene			--	--	--		--	--	--		886	DET	mg/kg		703	DET	mg/kg		yes	no	2
VOC	SW8260	535-77-3	1-Methyl-3-isopropylbenzene			--	--	--		--	--	--		281	DET	mg/kg		230	DET	mg/kg		yes	no	2
VOC	SW8260	1074-43-7	1-methyl-3-n-propylbenzene			--	--	--		--	--	--		830	DET	mg/kg		676	DET	mg/kg		yes	no	2
VOC	SW8260	622-96-8	1-Methyl-4-Ethylbenzene			--	--	--		--	--	--		362	DET	mg/kg		294	DET	mg/kg		yes	no	2
VOC	SW8260	99-87-6	1-Methyl-4-isopropylbenzene			--	--	--		--	--	--		132	DET	mg/kg		105	DET	mg/kg		yes	no	2
VOC	SW8260	1074-55-1	1-methyl-4-n-propylbenzene			--	--	--		--	--	--		288	DET	mg/kg		236	DET	mg/kg		yes	no	2
VOC	SW8260	90-12-0	1-Methylnaphthalene	18	0.006	--	--	--		--	--	--		957	DET	mg/kg		847	DET	mg/kg		yes	yes	2
VOC	SW8260	124-11-8	1-Nonene			--	--	--		--	--	--		96.6	ND	mg/kg		114	ND	mg/kg		yes	no	0
VOC	SW8260	111-66-0	1-Octene			--	--	--		--	--	--		96.6	ND	mg/kg		114	ND	mg/kg		yes	no	0
VOC	SW8260	109-67-1	1-Pentene			--	--	--		--	--	--		38.6	ND	mg/kg		45.8	ND	mg/kg		yes	no	0
VOC	SW8260	564-02-3	2,2,3-Trimethylpentane			--	--	--		--	--	--		7.46	DET	mg/kg		4.31	DET	mg/kg		yes	no	2
VOC	SW8260	594-20-7	2,2-Dichloropropane			0.0552	ND	mg/Kg		0.0276	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	590-35-2	2,2-Dimethylpentane			--	--	--		--	--	--		9.33	DET	mg/kg		45.8	ND	mg/kg		yes	no	1
VOC	SW8260	560-21-4	2,3,3-Trimethylpentane			--	--	--		--	--	--		13.3	DET	mg/kg		9.21	DET	mg/kg		yes	no	2
VOC	SW8260	565-75-3	2,3,4-Trimethylpentane			--	--	--		--	--	--		24	DET	mg/kg		15.8	DET	mg/kg		yes	no	2
VOC	SW8260	79-29-8	2,3-Dimethylbutane			--	--	--		--	--	--		25	DET	mg/kg		11.4	DET	mg/kg		yes	no	2
VOC	SW8260	584-94-1	2,3-Dimethylhexane			--	--	--		--	--	--		76.8	DET	mg/kg		48.3	DET	mg/kg		yes	no	2
VOC	SW8260	565-59-3	2,3-Dimethylpentane			--	--	--		--	--	--		100	DET	mg/kg		53.2	DET	mg/kg		yes	no	2
VOC	SW8260	589-43-5	2,4-Dimethylhexane			--	--	--		--	--	--		86.7	DET	mg/kg		55.5	DET	mg/kg		yes	no	2
VOC	SW8260	108-08-7	2,4-Dimethylpentane			--	--	--		--	--	--		35.3	DET	mg/kg		17.8	DET	mg/kg		yes	no	2
VOC	SW8260	592-13-2	2,5-Dimethylhexane			--	--	--		--	--	--		53.5	DET	mg/kg		34.1	DET	mg/kg		yes	no	2
VOC	SW8260	78-93-3	2-Butanone (MEK)			2.54	ND	mg/Kg		1.27	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	95-49-8	2-Chlorotoluene			0.0346	ND	mg/Kg		0.0173	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	872-55-9	2-Ethylthiophene			--	--	--		--	--	--		2.86	DET	mg/kg		3.16	DET	mg/kg		yes	no	2
VOC	SW8260	563-46-2	2-Methyl-1-butene			--	--	--		--	--	--		38.6	ND	mg/kg		45.8	ND	mg/kg		yes	no	0
VOC	SW8260	592-27-8	2-Methylheptane			--	--	--		--	--	--		779	DET	mg/kg		514	DET	mg/kg		yes	no	2
VOC	SW8260	591-76-4	2-Methylhexane			--	--	--		--	--	--		246	DET	mg/kg		137	DET	mg/kg		yes	no	2
VOC	SW8260	91-57-6	2-Methylnaphthalene	24	0.019	--	--	--		--	--	--		1660	DET	mg/kg		1500	DET	mg/kg		yes	yes	2
VOC	SW8260	107-83-5	2-Methylpentane			--	--	--		--	--	--		191	DET	mg/kg		85	DET	mg/kg		yes	no	2
VOC	SW8260	554-14-3	2-Methylthiophene			--	--	--		--	--	--		38.6	ND	mg/kg		45.8	ND	mg/kg		yes	no	0
VOC	SW8260	619-99-8	3-Ethylhexane			--	--	--		--	--	--		48.7	DET	mg/kg		35.2	DET	mg/kg		yes	no	2
VOC	SW8260	589-81-1	3-Methylheptane			--	--	--		--	--	--		414	DET	mg/kg		273	DET	mg/kg		yes	no	2
VOC	SW8260	589-34-4	3-Methylhexane			--	--	--		--	--	--		276	DET	mg/kg		158	DET	mg/kg		yes	no	2
VOC	SW8260	96-14-0	3-Methylpentane			--	--	--		--	--	--		124	DET	mg/kg		55	DET	mg/kg		yes	no	2
VOC	SW8260	616-44-4	3-Methylthiophene			--	--	--		--	--	--		38.6	ND	mg/kg		45.8	ND	mg/kg		yes	no	0
VOC	SW8260	106-43-4	4-Chlorotoluene			0.018	ND	mg/Kg		0.009	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	108-10-1	4-Methyl-2-pentanone (MIBK)			0.0912	ND	mg/Kg		0.0456	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	67-64-1	Acetone			1.46	ND	mg/Kg		0.73	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	107-02-8	Acrolein			--	--	--		--	--	--		--	--	--		--	--	--		not reported	yes	
VOC	SW8260	107-13-1	Acrylonitrile			0.144	ND	mg/Kg		0.0722	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	71-43-2	Benzene	1.2	0.0026	0.852	DET	mg/Kg		0.495	DET	mg/Kg		51.9	DET	mg/kg		29.2	DET	mg/kg		yes	yes	4
VOC	SW8260	95-15-8	Benzothiophene			--	--	--		--	--	--		38.6	ND	mg/kg		45.8	ND	mg/kg		yes	no	0
VOC	SW8260	108-86-1	Bromobenzene			0.036	ND	mg/Kg		0.018	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	75-27-4	Bromodichloromethane			0.029	ND	mg/Kg		0.0145	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	75-25-2	Bromoform			0.0468	ND	mg/Kg		0.0234	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0
VOC	SW8260	74-83-9	Bromomethane			0.0788	ND	mg/Kg		0.0394	ND	mg/Kg		--	--	--		--	--	--		yes	yes	0

Notes

a = Total Soil TPH (used for comparative purposes)

Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
VOC	SW8260	56-23-5	Carbon tetrachloride			0.0359	ND	mg/Kg	0.018	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	108-90-7	Chlorobenzene			0.0084	ND	mg/Kg	0.0042	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	124-48-1	Chlorodibromomethane			0.0245	ND	mg/Kg	0.0122	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-00-3	Chloroethane			0.068	ND	mg/Kg	0.034	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	67-66-3	Chloroform			0.077	DET	mg/Kg	0.0416	DET	mg/Kg	--	--	--	--	--	--	yes	yes	2
VOC	SW8260	74-87-3	Chloromethane			0.174	ND	mg/Kg	0.087	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	156-59-2	cis-1,2-Dichloroethene			0.0294	ND	mg/Kg	0.0147	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	10061-01-5	cis-1,3-Dichloropropene			0.0303	ND	mg/Kg	0.0151	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	627-20-3	cis-2-Pentene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	110-82-7	Cyclohexane			--	--	--	--	--	--	332	DET	mg/kg	180	DET	mg/kg	yes	no	2
VOC	SW8260	287-92-3	Cyclopentane			--	--	--	--	--	--	40.7	DET	mg/kg	19.2	DET	mg/kg	yes	no	2
VOC	SW8260	124-18-5	Decane (C10)			--	--	--	--	--	--	6900	DET	mg/kg	7320	DET	mg/kg	yes	no	2
VOC	SW8260	74-95-3	Dibromomethane			0.03	ND	mg/Kg	0.015	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-71-8	Dichlorodifluoromethane			0.0644	ND	mg/Kg	0.0322	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	108-20-3	Di-isopropyl ether			0.0164	ND	mg/Kg	0.0082	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	112-40-3	Dodecane (C12)			--	--	--	--	--	--	7870	DET	mg/kg	5770	DET	mg/kg	yes	no	2
VOC	SW8260	100-41-4	Ethylbenzene	5.8	0.78	1.35	DET	mg/Kg	1.21	DET	mg/Kg	267	DET	mg/kg	204	DET	mg/kg	yes	yes	4
VOC	SW8260	637-92-3	Ethyl-Tert-Butyl-Ether			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	462-06-6	FLUOROBENZENE			--	--	--	--	--	--	--	--	--	--	--	--	not reported	yes	
VOC	SW8260	142-82-5	Heptane			--	--	--	--	--	--	1050	DET	mg/kg	634	DET	mg/kg	yes	no	2
VOC	SW8260	87-68-3	Hexachloro-1,3-butadiene			0.24	ND	mg/Kg	0.12	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	496-11-7	Indane			--	--	--	--	--	--	43.2	DET	mg/kg	35	DET	mg/kg	yes	no	2
VOC	SW8260	540-84-1	Isooctane			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	78-78-4	Isopentane			--	--	--	--	--	--	170	DET	mg/kg	77.6	DET	mg/kg	yes	no	2
VOC	SW8260	108-20-3	Isopropyl Ether			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	98-82-8	Isopropylbenzene			0.373	DET	mg/Kg	0.276	DET	mg/Kg	111	DET	mg/kg	84.8	DET	mg/kg	yes	yes	4
VOC	SW8260	1634-04-4	Methyl tert-butyl ether			0.014	ND	mg/Kg	0.007	ND	mg/Kg	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	yes	0
VOC	SW8260	75-09-2	Methylene Chloride			0.266	ND	mg/Kg	0.133	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	108-87-2	Methylcyclohexane			--	--	--	--	--	--	1020	DET	mg/kg	617	DET	mg/kg	yes	no	2
VOC	SW8260	96-37-7	Methylcyclopentane			--	--	--	--	--	--	248	DET	mg/kg	129	DET	mg/kg	yes	no	2
VOC	SW8260	12108-13-3	MMT			--	--	--	--	--	--	96.6	ND	mg/kg	114	ND	mg/kg	yes	no	0
VOC	SW8260	91-20-3	Naphthalene	2	0.0038	2.23	DET	mg/Kg	2.36	DET	mg/Kg	374	DET	mg/kg	333	DET	mg/kg	yes	yes	4
VOC	SW8260	104-51-8	n-Butylbenzene			0.217	DET	mg/Kg	0.197	DET	mg/Kg	228	DET	mg/kg	188	DET	mg/kg	yes	yes	4
VOC	SW8260	110-54-3	n-hexane			--	--	--	--	--	--	410	DET	mg/kg	243	DET	mg/kg	yes	no	2
VOC	SW8260	111-84-2	Nonane (C9)			--	--	--	--	--	--	4010	DET	mg/kg	2870	DET	mg/kg	yes	no	2
VOC	SW8260	538-68-1	n-pentylbenzene			--	--	--	--	--	--	32.5	DET	mg/kg	20.6	DET	mg/kg	yes	no	2
VOC	SW8260	103-65-1	n-Propylbenzene			0.919	DET	mg/Kg	0.769	DET	mg/Kg	349	DET	mg/kg	274	DET	mg/kg	yes	yes	4
VOC	SW8260	111-65-9	Octane			--	--	--	--	--	--	2170	DET	mg/kg	1480	DET	mg/kg	yes	no	2
VOC	SW8260	95-47-6	o-Xylene			--	--	--	--	--	--	904	DET	mg/kg	695	DET	mg/kg	yes	yes	2
VOC	SW8260	99-87-6	p-Isopropyltoluene			0.637	DET	mg/Kg	0.533	DET	mg/Kg	--	--	--	--	--	--	yes	yes	2
VOC	SW8260	179601-23-1	p/m-Xylene			--	--	--	--	--	--	2130	DET	mg/kg	1640	DET	mg/kg	yes	yes	2
VOC	SW8260	109-66-0	Pentane			--	--	--	--	--	--	264	DET	mg/kg	116	DET	mg/kg	yes	no	2
VOC	SW8260	135-98-8	sec-Butylbenzene			0.3	DET	mg/Kg	0.244	DET	mg/Kg	156	DET	mg/kg	121	DET	mg/kg	yes	yes	4
VOC	SW8260	100-42-5	Styrene			0.00916	ND	mg/Kg	0.00458	ND	mg/Kg	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	yes	0
VOC	SW8260	98-06-6	tert-Butylbenzene			0.078	ND	mg/Kg	0.039	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-65-0	Tertiary Butanol			--	--	--	--	--	--	483	ND	mg/kg	573	ND	mg/kg	yes	no	0
VOC	SW8260	994-05-8	Tertiary-Amyl Methyl Ether			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0

Notes

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Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
VOC	SW8260	127-18-4	Tetrachloroethene			0.06	DET	mg/Kg	0.0179	ND	mg/Kg	--	--	--	--	--	--	yes	yes	1
VOC	SW8260	110-02-1	Thiophene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	108-88-3	Toluene	490	0.69	6.58	DET	mg/Kg	5.19	DET	mg/Kg	733	DET	mg/kg	512	DET	mg/kg	yes	yes	4
VOC	SW8260	156-60-5	trans-1,2-Dichloroethene			0.0416	ND	mg/Kg	0.0208	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	10061-02-6	trans-1,3-Dichloropropene			0.0456	ND	mg/Kg	0.0228	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	646-04-8	trans-2-Pentene			--	--	--	--	--	--	38.6	ND	mg/kg	45.8	ND	mg/kg	yes	no	0
VOC	SW8260	79-01-6	Trichloroethene			0.0234	ND	mg/Kg	0.0117	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	75-69-4	Trichlorofluoromethane			0.0331	ND	mg/Kg	0.0165	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	629-50-5	Tridecane			--	--	--	--	--	--	7140	DET	mg/kg	5560	DET	mg/kg	yes	no	2
VOC	SW8260	1120-21-4	Undecane			--	--	--	--	--	--	7650	DET	mg/kg	5650	DET	mg/kg	yes	no	2
VOC	SW8260	75-01-4	Vinyl chloride			0.0464	ND	mg/Kg	0.0232	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
VOC	SW8260	1330-20-7	Xylenes, Total	58	9.9	14.3	DET	mg/Kg	11.7	DET	mg/Kg	--	--	--	--	--	--	yes	yes	2
SVOC	SW8270	ETHDIACHOL02	13a,17b-20S-Ethyldiacholestane (S19)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	82079-08-1	13b(H),17a(H)-20R-Diacholestane (S5)			--	--	--	--	--	--	17	DET	mg/kg	17.9	DET	mg/kg	yes	no	2
SVOC	SW8270	DIACHOLESTAN01	13b(H),17a(H)-20S-Diacholestane (S4)			--	--	--	--	--	--	27.2	DET	mg/kg	31.4	DET	mg/kg	yes	no	2
SVOC	SW8270	METHYLDIACHO01	13b,17a-20S-Methyldiacholestane (S8)			--	--	--	--	--	--	19.3	DET	mg/kg	21.6	DET	mg/kg	yes	no	2
SVOC	SW8270	ETHCHOLE02	14a(H),17a(H)-20R-Ethylcholestane (S28)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	ETHCHOLE01	14a(H),17a(H)-20S-Ethylcholestane (S25)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	METHDIACHOLE03	14a,17a-20R-Methylcholestane (S24)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	METHDIACHOLE02	14a,17a-20S-Methylcholestane (S20)			--	--	--	--	--	--	7.8	DET	mg/kg	6.4	DET	mg/kg	yes	no	2
SVOC	SW8270	CHOLESTANE03	14b(H),17b(H)-20R-Cholestane (S14)			--	--	--	--	--	--	5.56	DET	mg/kg	3.99	DET	mg/kg	yes	no	2
SVOC	SW8270	ETHCHOLE03	14b(H),17b(H)-20R-Ethylcholestane (S26)			--	--	--	--	--	--	5.88	DET	mg/kg	4.25	DET	mg/kg	yes	no	2
SVOC	SW8270	CHOLESTANE04	14b(H),17b(H)-20S-Cholestane (S15)			--	--	--	--	--	--	5.63	DET	mg/kg	5.74	DET	mg/kg	yes	no	2
SVOC	SW8270	ETHCHOLE04	14b(H),17b(H)-20S-Ethylcholestane (S27)			--	--	--	--	--	--	4.6	DET	mg/kg	5.12	DET	mg/kg	yes	no	2
SVOC	SW8270	METHCHOLE01	14b,17b-20R-Methylcholestane (S22)			--	--	--	--	--	--	5.54	DET	mg/kg	5.49	DET	mg/kg	yes	no	2
SVOC	SW8270	--	14b,17b-20S-Methylcholestane (S23)			--	--	--	--	--	--	5.34	DET	mg/kg	7.11	DET	mg/kg	yes	no	2
SVOC	SW8270	NORHOPANE01	17a(H),21b(H)-25-Norhopane (T14b)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	CHOLETHDIACH02	17a(H)20rc27/C29dia			--	--	--	--	--	--	15.8	DET	mg/kg	17.1	DET	mg/kg	yes	no	2
SVOC	SW8270	CHOLETHDIACH01	17a(H)20SC27/C29dia			--	--	--	--	--	--	21.1	DET	mg/kg	18.6	DET	mg/kg	yes	no	2
SVOC	SW8270	53584-59-1	17a(H)-22,29,30-Trisnorhopane-TM			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	DIAHOPANE01	17a(H)-Diahopane (X)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	BISNORHOPANE01	17a/b,21b/a 28,30-Bisnorhopane (T14a)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	OLEANANE01	18a(H)&18b(H)-Oleananes (T18)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	NORNEOHPANE01	18a(H)-30-Norneohopane-C29Ts (T16)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	TRISNORNEOHP01	18a-22,29,30-Trisnorneohopane-TS (T11)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	31317-07-4	1-Methyldibenzothiophene(1MDT)			--	--	--	--	--	--	3.06	DET	mg/kg	2.84	DET	mg/kg	yes	no	2
SVOC	SW8270	90-12-0	1-Methylnaphthalene	18	0.006	--	--	--	--	--	--	813	DET	mg/kg	784	DET	mg/kg	yes	yes	2
SVOC	SW8270	832-69-9	1-Methylphenanthrene			--	--	--	--	--	--	93.1	DET	mg/kg	92.4	DET	mg/kg	yes	no	2
SVOC	SW8270	108-60-1	2,2-Oxybis(1-Chloropropane)			2.06	ND	mg/Kg	2.12	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	2245-38-7	2,3,5-Trimethylnaphthalene			--	--	--	--	--	--	185	DET	mg/kg	170	DET	mg/kg	yes	no	2
SVOC	SW8270	88-06-2	2,4,6-Trichlorophenol			1.53	ND	mg/Kg	1.57	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	120-83-2	2,4-Dichlorophenol			1.39	ND	mg/Kg	1.43	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	105-67-9	2,4-Dimethylphenol			1.24	ND	mg/Kg	1.28	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	51-28-5	2,4-Dinitrophenol			11.1	ND	mg/Kg	11.5	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	121-14-2	2,4-Dinitrotoluene			1.37	ND	mg/Kg	1.4	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	581-42-0	2,6-Dimethylnaphthalene			--	--	--	--	--	--	1230	DET	mg/kg	1220	DET	mg/kg	yes	no	2
SVOC	SW8270	606-20-2	2,6-Dinitrotoluene			1.56	ND	mg/Kg	1.6	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0

Notes

a = Total Soil TPH (used for comparative purposes)

Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

			Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
SVOC	SW8270	20928-02-3/16587-52-3	2/3-Methyldibenzothiophene(2MDT)			--	--	--	--	--	--	14.9	DET	mg/kg	17.2	DET	mg/kg	yes	no	2
SVOC	SW8270	91-58-7	2-Chloronaphthalene			0.837	ND	mg/Kg	0.86	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	95-57-8	2-Chlorophenol			1.57	ND	mg/Kg	1.62	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	613-12-7	2-Methylanthracene (2MA)			--	--	--	--	--	--	2.73	DET	mg/kg	2.43	DET	mg/kg	yes	no	2
SVOC	SW8270	91-57-6	2-Methylnaphthalene	24	0.019	--	--	--	--	--	--	1380	DET	mg/kg	1340	DET	mg/kg	yes	yes	2
SVOC	SW8270	2531-84-2	2-Methylphenanthrene (2MP)			--	--	--	--	--	--	135	DET	mg/kg	134	DET	mg/kg	yes	no	2
SVOC	SW8270	88-75-5	2-Nitrophenol			1.7	ND	mg/Kg	1.75	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	91-94-1	3,3-Dichlorobenzidine			1.76	ND	mg/Kg	1.81	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	BISNORHOPANE03	30,31-Bishomohopane-22R (T27)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	BISNORHOPANE02	30,31-Bishomohopane-22S (T26)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	TRISHOMOHOP02	30,31-Trishomohopane-22R (T31)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	TRISHOMOHOP01	30,31-Trishomohopane-22S (T30)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	60305-22-8	30-Homohopane-22R (T22)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	60305-23-6	30-Homohopane-22S (T21)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	53584-60-4	30-Norhopane (T15)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	3258-87-5	30-Normoretane (T17)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	832-71-3	3-Methylphenanthrene			--	--	--	--	--	--	114	DET	mg/kg	115	DET	mg/kg	yes	no	2
SVOC	SW8270	534-52-1	4,6-Dinitro-2-methylphenol			10.8	ND	mg/Kg	11.1	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	101-55-3	4-Bromophenyl-phenylether			1.67	ND	mg/Kg	1.72	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	59-50-7	4-Chloro-3-methylphenol			1.54	ND	mg/Kg	1.59	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	7005-72-3	4-Chlorophenyl-phenylether			1.66	ND	mg/Kg	1.71	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	7372-88-5	4-Methyldibenzothiophene(4MDT)			--	--	--	--	--	--	97	DET	mg/kg	97	DET	mg/kg	yes	no	2
SVOC	SW8270	100-02-7	4-Nitrophenol			1.49	ND	mg/Kg	1.53	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	883-20-5/832-64-4	9/4-Methylphenanthrene (9MP)			--	--	--	--	--	--	123	DET	mg/kg	123	DET	mg/kg	yes	no	2
SVOC	SW8270	83-32-9	Acenaphthene	360	0.55	0.771	ND	mg/Kg	0.792	ND	mg/Kg	43.8	DET	mg/kg	45.1	DET	mg/kg	yes	yes	2
SVOC	SW8270	208-96-8	Acenaphthylene			0.671	ND	mg/Kg	0.689	ND	mg/Kg	5.97	DET	mg/kg	5.78	DET	mg/kg	yes	yes	2
SVOC	SW8270	120-12-7	Anthracene	1800	5.8	0.848	ND	mg/Kg	0.872	ND	mg/Kg	6.07	DET	mg/kg	5.78	DET	mg/kg	yes	yes	2
SVOC	SW8270	92-87-5	Benzidine			8.95	ND	mg/Kg	9.2	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	56-55-3	Benzo(a)anthracene	1.1	0.011	0.839	ND	mg/Kg	0.863	ND	mg/Kg	1.43	DET	mg/kg	1.1	DET	mg/kg	yes	yes	2
SVOC	SW8270	203-33-8	Benzo[a]fluoranthene			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	50-32-8	Benzo(a)pyrene	0.11	0.024	0.885	ND	mg/Kg	0.91	ND	mg/Kg	2.79	DET	mg/kg	2.67	DET	mg/kg	yes	yes	2
SVOC	SW8270	205-99-2	Benzo(b)fluoranthene	1.1	0.3	0.888	ND	mg/Kg	0.913	ND	mg/Kg	1.37	DET	mg/kg	1.41	DET	mg/kg	yes	yes	2
SVOC	SW8270	243-17-4	Benzo[b]fluorene			--	--	--	--	--	--	3.77	DET	mg/kg	3.78	DET	mg/kg	yes	no	2
SVOC	SW8270	192-97-2	Benzo[e]pyrene			--	--	--	--	--	--	6.01	DET	mg/kg	6.59	DET	mg/kg	yes	no	2
SVOC	SW8270	191-24-2	Benzo(g,h,i)perylene			0.871	ND	mg/Kg	0.895	ND	mg/Kg	0.461	DET	mg/kg	1.46	ND	mg/kg	yes	yes	1
SVOC	SW8270	205-82-3/207-08-9	Benzo[j]fluoranthene/Benzo[k]fluoranthene			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	207-08-9	Benzo(k)fluoranthene	11	2.9	0.847	ND	mg/Kg	0.87	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	95-15-8	Benzothiophene			--	--	--	--	--	--	4.77	DET	mg/kg	5.05	DET	mg/kg	yes	no	2
SVOC	SW8270	85-68-7	Benzylbutyl phthalate			1.49	ND	mg/Kg	1.53	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	92-52-4	Biphenyl			--	--	--	--	--	--	336	DET	mg/kg	324	DET	mg/kg	yes	no	2
SVOC	SW8270	111-91-1	Bis(2-chlorethoxy)methane			1.43	ND	mg/Kg	1.47	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	111-44-4	Bis(2-chloroethyl)ether			1.57	ND	mg/Kg	1.62	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	117-81-7	Bis(2-ethylhexyl)phthalate			6.03	ND	mg/Kg	6.2	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	95-15-8C1	C1-Benzo(b)thiophenes			--	--	--	--	--	--	18.3	DET	mg/kg	18.5	DET	mg/kg	yes	no	2
SVOC	SW8270	218-01-9C1	C1-Chrysenes			--	--	--	--	--	--	80.3	DET	mg/kg	81.3	DET	mg/kg	yes	no	2
SVOC	SW8270	DECALINSC1	C1-Decalins			--	--	--	--	--	--	657	DET	mg/kg	597	DET	mg/kg	yes	no	2
SVOC	SW8270	132-65-0C1	C1-Dibenzothiophenes			--	--	--	--	--	--	123	DET	mg/kg	120	DET	mg/kg	yes	no	2

Notes

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Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001				GACO0408SC002				GACO0408SC001				GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units		Result	Detection	Units		Result	Detection	Units		Result	Detection	Units		Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
SVOC	SW8270	FLUORPYRC1	C1-Fluoranthenes/Pyrenes			--	--	--		--	--	--		45.5	DET	mg/kg		44.2	DET	mg/kg		yes	no	2
SVOC	SW8270	86-73-7C1	C1-Fluorenes			--	--	--		--	--	--		295	DET	mg/kg		297	DET	mg/kg		yes	no	2
SVOC	SW8270	91-20-3C1	C1-Naphthalenes			--	--	--		--	--	--		1350	DET	mg/kg		1300	DET	mg/kg		yes	no	2
SVOC	SW8270	NAPBENZOTHIOPC1	C1-Naphthobenzothiophenes			--	--	--		--	--	--		36.4	DET	mg/kg		36.6	DET	mg/kg		yes	no	2
SVOC	SW8270	PHENANTHC1	C1-Phenanthrenes/Anthracenes			--	--	--		--	--	--		475	DET	mg/kg		477	DET	mg/kg		yes	no	2
SVOC	SW8270	C23-TRITERP	C23 Tricyclic Terpane (T4)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C24-TETRATERP	C24 Tetracyclic Terpane (T6a)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C24-TRITERP	C24 Tricyclic Terpane (T5)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C25-TRITERP	C25 Tricyclic Terpane (T6)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C26-TRITERP22R	C26 Tricyclic Terpane-22R (T6c)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C26-TRITERP22S	C26 Tricyclic Terpane-22S (T6b)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	TRIAROMROID01	C26,20R+C27,20S TAS			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	TRIAROMROID03	C27,20R TAS			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C28-TRITERP22R	C28 Tricyclic Terpane-22R (T8)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C28-TRITERP22S	C28 Tricyclic Terpane-22S (T7)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	TRIAROMROID04	C28,20R TAS			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	TRIAROMROID02	C28,20S TAS			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C29-TRITERP22R	C29 Tricyclic Terpane-22R (T10)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C29-TRITERP22S	C29 Tricyclic Terpane-22S (T9)			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	95-15-8C2	C2-Benzo(b)thiophenes			--	--	--		--	--	--		8.79	DET	mg/kg		8.89	DET	mg/kg		yes	no	2
SVOC	SW8270	218-01-9C2	C2-Chrysenes			--	--	--		--	--	--		103	DET	mg/kg		101	DET	mg/kg		yes	no	2
SVOC	SW8270	DECALINSC2	C2-Decalins			--	--	--		--	--	--		767	DET	mg/kg		703	DET	mg/kg		yes	no	2
SVOC	SW8270	132-65-0C2	C2-Dibenzothiophenes			--	--	--		--	--	--		277	DET	mg/kg		277	DET	mg/kg		yes	no	2
SVOC	SW8270	FLUORPYRC2	C2-Fluoranthenes/Pyrenes			--	--	--		--	--	--		62.3	DET	mg/kg		60.1	DET	mg/kg		yes	no	2
SVOC	SW8270	86-73-7C2	C2-Fluorenes			--	--	--		--	--	--		417	DET	mg/kg		419	DET	mg/kg		yes	no	2
SVOC	SW8270	91-20-3C2	C2-Naphthalenes			--	--	--		--	--	--		1850	DET	mg/kg		1830	DET	mg/kg		yes	no	2
SVOC	SW8270	NAPBENZOTHIOPC2	C2-Naphthobenzothiophenes			--	--	--		--	--	--		67.8	DET	mg/kg		66.3	DET	mg/kg		yes	no	2
SVOC	SW8270	PHENANTHC2	C2-Phenanthrenes/Anthracenes			--	--	--		--	--	--		541	DET	mg/kg		535	DET	mg/kg		yes	no	2
SVOC	SW8270	C30-TRITERP22R	C30 Tricyclic Terpane-22R			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	C30-TRITERP22S	C30 Tricyclic Terpane-22S			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	95-15-8C3	C3-Benzo(b)thiophenes			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	218-01-9C3	C3-Chrysenes			--	--	--		--	--	--		81.6	DET	mg/kg		92	DET	mg/kg		yes	no	2
SVOC	SW8270	DECALINSC3	C3-Decalins			--	--	--		--	--	--		466	DET	mg/kg		440	DET	mg/kg		yes	no	2
SVOC	SW8270	132-65-0C3	C3-Dibenzothiophenes			--	--	--		--	--	--		190	DET	mg/kg		190	DET	mg/kg		yes	no	2
SVOC	SW8270	FLUORPYRC3	C3-Fluoranthenes/Pyrenes			--	--	--		--	--	--		83.2	DET	mg/kg		81.2	DET	mg/kg		yes	no	2
SVOC	SW8270	86-73-7C3	C3-Fluorenes			--	--	--		--	--	--		296	DET	mg/kg		291	DET	mg/kg		yes	no	2
SVOC	SW8270	91-20-3C3	C3-Naphthalenes			--	--	--		--	--	--		1020	DET	mg/kg		1010	DET	mg/kg		yes	no	2
SVOC	SW8270	NAPBENZOTHIOPC3	C3-Naphthobenzothiophenes			--	--	--		--	--	--		48.8	DET	mg/kg		51.1	DET	mg/kg		yes	no	2
SVOC	SW8270	PHENANTHC3	C3-Phenanthrenes/Anthracenes			--	--	--		--	--	--		267	DET	mg/kg		265	DET	mg/kg		yes	no	2
SVOC	SW8270	95-15-8C4	C4-Benzo(b)thiophenes			--	--	--		--	--	--		1.89	ND	mg/kg		1.46	ND	mg/kg		yes	no	0
SVOC	SW8270	218-01-9C4	C4-Chrysenes			--	--	--		--	--	--		52.7	DET	mg/kg		58.8	DET	mg/kg		yes	no	2
SVOC	SW8270	DECALINSC4	C4-Decalins			--	--	--		--	--	--		490	DET	mg/kg		479	DET	mg/kg		yes	no	2
SVOC	SW8270	132-65-0C4	C4-Dibenzothiophenes			--	--	--		--	--	--		76.6	DET	mg/kg		75.6	DET	mg/kg		yes	no	2
SVOC	SW8270	FLUORPYRC4	C4-Fluoranthenes/Pyrenes			--	--	--		--	--	--		74.4	DET	mg/kg		73.6	DET	mg/kg		yes	no	2
SVOC	SW8270	91-20-3C4	C4-Naphthalenes			--	--	--		--	--	--		356	DET	mg/kg		355	DET	mg/kg		yes	no	2
SVOC	SW8270	NAPBENZOTHIOPC4	C4-Naphthobenzothiophenes			--	--	--		--	--	--		32.5	DET	mg/kg		32.2	DET	mg/kg		yes	no	2
SVOC	SW8270	PHENANTHC4	C4-Phenanthrenes/Anthracenes			--	--	--		--	--	--		103	DET	mg/kg		101	DET	mg/kg		yes	no	2

Notes

a = Total Soil TPH (used for comparative purposes)

Yellow = Exceeds RSSL

Orange = Exceeds PGSSL

Attachment C. Analytical results for the Pad samples and Ditch samples compared to the Comprehensive analyte list and ECMC Table 915-1 RSSLs and PGSSLs.

				Table 915-1 Thresholds (mg/kg)		GACO0408SC001			GACO0408SC002			GACO0408SC001			GACO0408SC002					
Analytical Group	Analytical Method	CAS_NO	ANALYTE	Residential Soil Screening Level (RSSL)	Protection of Groundwater Soil Screening Level (PGSSL)	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Result	Detection	Units	Measured in Sample?	In ECMC list for soil and surface water?	Number of Detects
SVOC	SW8270	86-74-8	Carbazole			--	--	--	--	--	--	6.83	DET	mg/kg	5.83	DET	mg/kg	yes	no	2
SVOC	SW8270	218-01-9	Chrysene	110	9	0.947	ND	mg/Kg	0.973	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	218-01-9/217-59-4	Chrysene/Triphenylene			--	--	--	--	--	--	28.3	DET	mg/kg	27.9	DET	mg/kg	yes	no	2
SVOC	SW8270	493-01-6/493-02-7	cis/trans-Decalin			--	--	--	--	--	--	390	DET	mg/kg	338	DET	mg/kg	yes	no	2
SVOC	SW8270	53-70-3	Dibenz(a,h)anthracene	0.11	0.096	1.32	ND	mg/Kg	1.36	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	215-58-7/53-70-3	Dibenz[a,h]anthracene/Dibenz[a,c]anthracene			--	--	--	--	--	--	0.861	DET	mg/kg	1.46	ND	mg/kg	yes	no	1
SVOC	SW8270	132-64-9	Dibenzofuran			--	--	--	--	--	--	8.74	DET	mg/kg	7.99	DET	mg/kg	yes	no	2
SVOC	SW8270	132-65-0	Dibenzothiophene			--	--	--	--	--	--	21.8	DET	mg/kg	22.1	DET	mg/kg	yes	no	2
SVOC	SW8270	84-66-2	Diethyl phthalate			1.57	ND	mg/Kg	1.62	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	131-11-3	Dimethyl phthalate			10.1	ND	mg/Kg	10.4	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	84-74-2	Di-n-butyl phthalate			1.63	ND	mg/Kg	1.68	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	117-84-0	Di-n-octyl phthalate			3.22	ND	mg/Kg	3.31	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	206-44-0	Fluoranthene	240	8.9	0.859	ND	mg/Kg	0.883	ND	mg/Kg	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	yes	0
SVOC	SW8270	86-73-7	Fluorene	240	0.54	31	DET	mg/Kg	13.9	DET	mg/Kg	116	DET	mg/kg	118	DET	mg/kg	yes	yes	4
SVOC	SW8270	--	Gammacerane/C32-Diahopane			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	87-68-3	Hexachloro-1,3-butadiene			1.6	ND	mg/Kg	1.65	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	118-74-1	Hexachlorobenzene			1.69	ND	mg/Kg	1.73	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	77-47-4	Hexachlorocyclopentadiene			2.5	ND	mg/Kg	2.57	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	67-72-1	Hexachloroethane			1.87	ND	mg/Kg	1.93	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	13849-96-2	Hopane (T19)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	193-39-5	Indeno(1,2,3-cd)pyrene	1.1	0.98	1.35	ND	mg/Kg	1.38	ND	mg/Kg	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	yes	0
SVOC	SW8270	78-59-1	Isophorone			1.46	ND	mg/Kg	1.5	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	1176-44-9	Moretane (T20)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	91-20-3	Naphthalene	2	0.0038	68.9	DET	mg/Kg	32.4	DET	mg/Kg	338	DET	mg/kg	315	DET	mg/kg	yes	yes	4
SVOC	SW8270	61523-34-0	Naphthobenzothiophenes			--	--	--	--	--	--	6.71	DET	mg/kg	7.26	DET	mg/kg	yes	no	2
SVOC	SW8270	98-95-3	Nitrobenzene			1.66	ND	mg/Kg	1.71	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	62-75-9	n-Nitrosodimethylamine			7.06	ND	mg/Kg	7.26	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	621-64-7	n-Nitrosodi-n-propylamine			1.59	ND	mg/Kg	1.63	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	86-30-6	n-Nitrosodiphenylamine			3.6	ND	mg/Kg	3.7	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	87-86-5	Pentachlorophenol			1.28	ND	mg/Kg	1.32	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	PENTAKSHOMHP02	Pentakishomohopane-22R (T35)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	PENTAKSHOMHP01	Pentakishomohopane-22S (T34)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	198-55-0	Perylene			--	--	--	--	--	--	2.25	DET	mg/kg	1.73	DET	mg/kg	yes	no	2
SVOC	SW8270	85-01-8	Phenanthrene			35.7	DET	mg/Kg	18.7	DET	mg/Kg	163	DET	mg/kg	163	DET	mg/kg	yes	yes	4
SVOC	SW8270	108-95-2	Phenol			1.92	ND	mg/Kg	1.97	ND	mg/Kg	--	--	--	--	--	--	yes	yes	0
SVOC	SW8270	129-00-0	Pyrene	180	1.3	0.927	ND	mg/Kg	0.953	ND	mg/Kg	8.48	DET	mg/kg	8.42	DET	mg/kg	yes	yes	2
SVOC	SW8270	483-65-8	Retene			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	TETRAKSHOMHP02	Tetrakishomohopane-22R (T33)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	TETRAKSHOMHP01	Tetrakishomohopane-22S (T32)			--	--	--	--	--	--	1.89	ND	mg/kg	1.46	ND	mg/kg	yes	no	0
SVOC	SW8270	UNKSTERANE01	Unknown Sterane (S18)			--	--	--	--	--	--	1.89	ND	mg/kg	11	DET	mg/kg	yes	no	1

Notes
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Yellow = Exceeds RSSL
Orange = Exceeds PGSSL