

Via WDNR Submittal Portal

Mr. Greg Moll
Wisconsin Department of Natural Resources
Remediation and Redevelopment
1027 W. St. Paul Avenue
Milwaukee, WI 53233

STATUS UPDATE

MARQUETTE UNIVERSITY – AHPRC EXPANSION
733 NORTH 12TH STREET, MILWAUKEE, WISCONSIN
BRRTS NO. 02-41-580746

Dear Mr. Moll:

Ramboll Americas Engineering Solutions, Inc. (Ramboll), on behalf of Marquette University (Marquette), is providing the Wisconsin Department of Natural Resources (WDNR) with this status update letter regarding recent activities completed at the Athletic and Human Performance Research Center (AHPRC) site located at 733 North 12th Street (formerly 1201-1221 West Wells Street), Milwaukee, Wisconsin (the “site”). In preparation for the planned expansion of the existing AHPRC building, Ramboll completed waste characterization sampling in August 2022 and July 2023 to assist Marquette with pre-construction soil management planning.

The following provides a summary of the waste characterization sampling activities, planned soil management approach during construction, and the anticipated next steps. The site layout and referenced sampling locations are provided on Figure 1.

WASTE CHARACTERIZATION SAMPLING

On August 11, 2022, Ramboll advanced eight direct-push soil borings (GP-1 through GP-8) on the western portion of the site to assess the soils located beneath the anticipated building addition footprint. The assessment identified the presence of 4 to 10 feet of urban fill material (i.e., fill soil, gravel, brick, concrete fragments, limited metal, and isolated possible foundry sand) underlain by silt/sandy silt within the assessment area. A distinct layer of non-exempt fill was not observed.

A total of 25 discrete soil samples were collected at varying depths and submitted to a Wisconsin certified laboratory for analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), metals, and polychlorinated biphenyls (PCBs). In addition, one composite soil sample was submitted for analysis of landfill Protocol B parameters.

September 28, 2023

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Ref. 1690005255-003

PAHs and metal impacts identified in the fill soil appear generally typical of urban fill and consistent with conditions previously encountered across the broader site during prior assessment work. Detected VOC impacts within the August 2022 assessment area were generally limited to petroleum compounds (benzene, naphthalene, and 1,2,4- and 1,3,5- trimethylbenzene) in the fill and shallow native soil samples collected from GP-3 and to a lesser degree the shallow native soil sample collected from GP-5. There were no VOCs detected above the Wisconsin Administrative Code (WAC) NR 720 Residual Contaminant Levels (RCLs) in the deeper (16 to 17 feet below ground surface [bgs]) native soil samples collected at either location or in the six remaining boring locations¹.

Based on the August 2022 sampling results, Ramboll advanced six additional direct-push soil borings (GP-9 through GP-14) on July 12, 2023, to further assess VOC soil impacts identified at GP-3 and to facilitate collection of a grab water grab sample from the anticipated deepest excavation area for excavation dewatering planning purposes. A total of 19 discrete soil samples were collected and submitted for Wisconsin certified laboratory analysis of VOCs along with one composite soil sample for landfill Protocol B parameters. In addition, one grab water sample was collected from GP-13 and submitted for analysis of parameters typically required by the Milwaukee Metropolitan Sewerage District (MMSD) to secure an excavation dewatering permit.

No VOCs were detected above the applicable WAC NR 720 RCLs in soil samples collected from borings GP-9, GP-11, GP-13, and GP-14. The soil samples collected from GP-9, GP-10, and GP-12 delineate the extent of VOCs to the north and south of GP-3. The soil samples collected from GP-13 further confirm the absence of VOCs in soil in the northeastern portion of the planned excavation area.

Benzene was detected in select fill and native soil samples in borings GP-10 and GP-12, located east and west of GP-3, at concentrations above the WAC NR 720 groundwater pathway RCL, but lower than originally detected at GP-3. GP-3, GP-10, and GP-12 are in the northern portion of the planned basement area. Benzene was not detected in the deeper native soil samples collected at these locations.

The results from the composite waste characterization soil samples collected as part of the August 2022 and July 2023 sampling confirm suitability and likely acceptance of impacted soil at a local Subtitle D landfill. Similarly, the grab water sample collected from GP-13 documents concentrations of total detectable organics (VOCs and SVOCs), RCRA metals and oil & grease below the local discharge limits specified in MMSD Rules 11.203.

The August 2022 and July 2023 soil and water sample laboratory analytical results are summarized on Table 1 and Table 2. Laboratory analytical reports are provided in Attachment A.

The limited impacts detected within the building expansion footprint during the pre-construction waste characterization sampling activities are consistent with urban fill and historic use of this portion of the site for predominantly residential type purposes. Please note that the August 2022 and July 2023 waste characterization sampling activities will be more formally documented in a future Construction Documentation Report.

¹ Methylene chloride was reported in several soil samples and the laboratory method blank. As such, the methylene chloride detections are considered laboratory related and not representative of site conditions.

SOIL MANAGEMENT APPROACH

The planned 43,000-square foot building expansion will extend the current AHPRC building footprint to the west and encompass the existing parking lot area. Similar to the existing AHPRC building, the addition will include a slab on grade two-story space in the northern portion and a two-story space with a basement in the southern portion. A portion of the northernmost basement space will include treatment pools that will extend below the basement grade. Excavation depths are anticipated to range from approximately 4 feet bgs for the slab on grade portion of the building up to a maximum of 23 feet bgs in the deepest part of the planned basement (pool area). Based on the planned excavation footprint and depths, the VOC impacted soil identified in the GP-3 area along with most of the identified PAHs, metals, and/or low-level VOC impacts will be removed during building construction. The anticipated excavation limits and conceptual soil management areas are shown on Figure 2.

Due to site space limitations, it is anticipated that soil excavated during construction will require off-site disposal. Impacted soil will be managed at an appropriately licensed Subtitle D landfill as either daily cover or direct landfill material. Marquette does not anticipate relocating impacted soils on site during construction. As such, a WAC NR 718 exemption/approval is not being pursued at this time from the WDNR.

ANTICIPATED NEXT STEPS

The following tasks will be completed prior to initiation of the construction activities:

- Prepare preliminary design plans and specification for inclusion of a vapor barrier and sub-slab piping for the building addition as a precautionary measure even though the planned excavation work will remove the VOC impacts identified in the GP-3 area. These preventative measures are consistent with those taken during construction of the existing AHPRC building.
- Collect one round of groundwater samples from existing groundwater monitoring wells MW-1, MW-2, and MW-3 to document groundwater conditions prior to the start of the construction activities.
- Abandon monitoring wells MW-2 and MW-3, located within the construction footprint, following completion of the sampling described above.
- Develop a Soil Management Plan for use by the contractors during construction. Ramboll will provide as needed support during the soil excavation activities to appropriately categorize/manifest the waste prior to off-site disposal.
- Assist Marquette and/or their contractors in securing the necessary approvals from a Subtitle D landfill for disposal of impacted soil excavated during construction and MMSD for disposal of water generated during excavation dewatering.
- Prepare and submit a Construction Documentation Report for ultimate submittal to the WDNR following completion of the construction activities. The report will formally document the pre-construction waste characterization sampling described above, and summarize the excavation, off-site disposal, and vapor mitigation measures employed during building construction.

Marquette currently anticipates that construction activities will begin in March 2024. Ramboll will keep the WDNR apprised regarding any significant changes to this schedule.

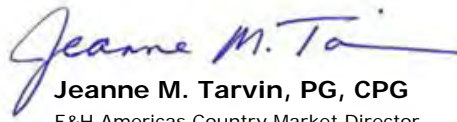
Please let us know if you have any questions or need further information at this time.

Yours sincerely,



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FIGURES





Figure 1: Site Layout

Figure 2: Soil Areas Identified for Off-Site Disposal



Aerial Imagery Source: Milwaukee County GIS Services 2020.

PROPERTY BOUNDARY (APPROXIMATE)
 NOTE:
 THE PROPERTY BOUNDARY SHOWN IS BASED ON RAMBOLL'S UNDERSTANDING THAT PARCELS 3900705100 (WESTERN PARCEL) AND 3910011110 (EASTERN PARCEL) WERE COMBINED UNDER A JOINDER DEED AS PART OF THE ORIGINAL AHPRC CONSTRUCTION ACTIVITIES.

-  MONITORING WELL (EXISTING)
-  GEOPROBE (AUGUST 2022)
-  GEOPROBE (JULY 2023)
-  GEOPROBE/TEMPORARY GROUNDWATER MONITORING POINT (JULY 2023)

Boring No.	Northing	Easting	Elevation*
1	385955.426	2553772.510	69.202
2	385956.966	2553913.219	67.893
3	385881.294	2553797.487	68.570
4	385871.015	2553912.758	65.342
5	385829.680	2553798.420	67.999
6	385832.357	2553913.909	65.344
7	385758.921	2553779.059	66.787
8	385759.125	2553888.584	68.460
9	385893.349	2553797.859	68.460
10	385880.925	2553809.147	67.895
11	385867.125	2553800.295	68.046
12	385880.300	2553785.866	68.233
13	385903.055	2553907.361	65.316
14	385905.421	2553799.318	68.350

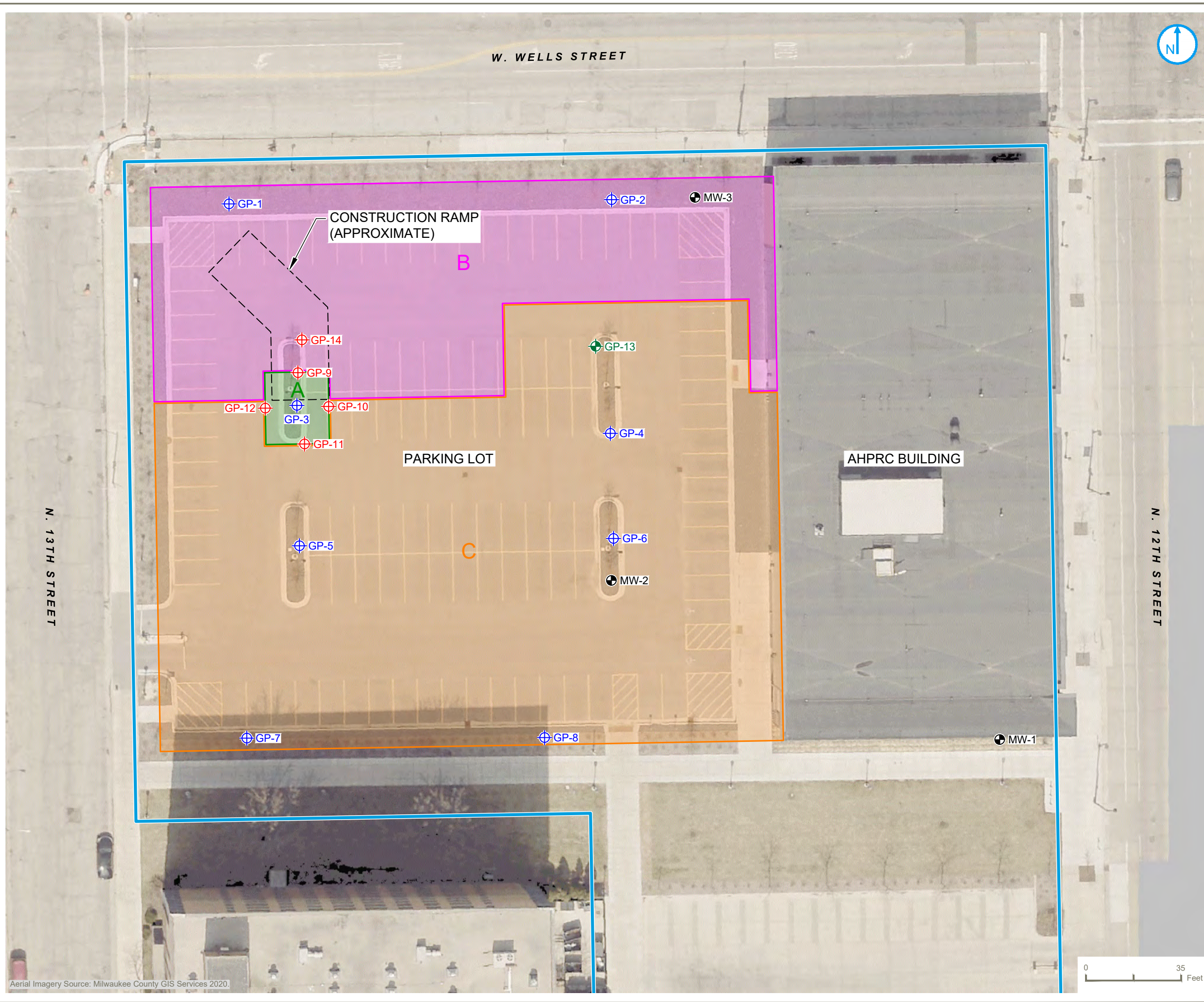
NOTES:
 Surveyed by The Sigma Group on August 12, 2022 and July 12, 2023.
 MU Survey Control Station 508.
 State Plane Coordinate System, South Zone, NAD27, GROUND (0.99992542), US SURVEY FOOT.
 City of Milwaukee Vertical Datum (NGVD29-580.603)
 * = Top of boring elevation

SITE LAYOUT

AHPRC/MARQUETTE UNIVERSITY
 733 N. 12TH STREET
 MILWAUKEE, WISCONSIN

FIGURE 1





- PROPERTY BOUNDARY (APPROXIMATE)
- MONITORING WELL (EXISTING)
- ⊕ GEOPROBE (AUGUST 2022)
- ⊕ GEOPROBE (JULY 2023)
- ⊕ GEOPROBE/TEMPORARY GROUNDWATER MONITORING POINT (JULY 2023)
- SOIL MANAGEMENT AREAS (APPROXIMATE)**
- A AREA OF VOC IMPACTED SOIL - DIRECT LANDFILL
- B SLAB ON GRADE PORTION OF BLDG - DAILY COVER OR DIRECT LANDFILL
- C BASEMENT PORTION OF BLDG - DAILY COVER OR DIRECT LANDFILL

Boring No.	Northing	Easting
1	385955.426	2553772.510
2	385956.966	2553913.219
3	385881.294	2553797.487
4	385871.015	2553912.758
5	385829.680	2553798.420
6	385832.357	2553913.909
7	385758.921	2553779.059
8	385759.125	2553888.584
9	385893.349	2553797.859
10	385880.925	2553809.147
11	385867.125	2553800.295
12	385880.300	2553785.866
13	385903.055	2553907.361
14	385905.421	2553799.318

NOTES:
 Surveyed by The Sigma Group on August 12, 2022 and July 12, 2023.
 MU Survey Control Station 508.
 State Plane Coordinate System, South Zone, NAD27, GROUND (0.99992542), US SURVEY FOOT.
 City of Milwaukee Vertical Datum (NGVD29-580.603)

SOIL AREAS IDENTIFIED FOR OFF-SITE DISPOSAL

AHPRC/MARQUETTE UNIVERSITY
 733 N. 12TH STREET
 MILWAUKEE, WISCONSIN

FIGURE 2

TABLES

Table 1: Soil Analytical Results

Table 2: Water Analytical Results

Table 1: Soil Analytical Results
 AHPRC Phase 2
 733 North 12th Street
 Ramboll Project No. 1690005255-003

Parameters	Soil RCLs			BTV	GP-1 (2-4)	GP-1 (8-9)	GP-1 (9-10)	GP-2 (2-4)	GP-2 (7-9)	GP-3 (2-4)	GP-3 (12-13)	GP-3 (16-17)	GP-3 (24-25)	GP-4 (2-4)	GP-4 (9-10)	GP-4 (16-17)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022
					FILL	NATIVE	NATIVE	FILL	FILL	FILL	NATIVE	NATIVE	NATIVE	FILL	NATIVE	NATIVE
VOCs (µg/kg)																
Benzene	1,600	7,070	5.1	--	<8.9	<8.9	<9.8	<12	<10	64 C	<18	<9.6	<8.8	<11	<9.4	<8.5
sec-Butylbenzene	145,000	145,000	--	--	<24	<24	<27	<33	<28	63 J	820	<26	<24	<30	<26	<23
n-Butylbenzene	108,000	108,000	--	--	<24	<24	<26	<33	<27	<27	1,800	<26	<23	<30	<25	<23
Chloroform	454	1,980	3.3	--	<22	<23	<25	<31	<26	<26	<45	<24	<22	<28	<24	<22
Ethylbenzene	8,020	35,400	1,570	--	<11	<11	19	<15	<13	97	300	<12	<11	<14	<12	<11
Isopropylbenzene	268,000	268,000	--	--	<23	<23	<26	<32	<27	46 J	390	<25	<23	<29	<25	<22
p-Isopropyltoluene	162,000	162,000	--	--	<22	<22	<24	<30	<25	42 J	780	<24	<22	<28	<23	<21
Methylene chloride	61,800	1,150,000	2.56	--	150 J b C	160 J b C	180 J b C	220 J b C	<110	<110	<200	<110	180 J b C	<120	140 J b C	120 J b C
Naphthalene	5,520	24,100	658.2	--	38 J b	<20	<22	39 J b	100	360 b	5,700 b A,C	26 J b	<20	110	<21	<19
n-Propylbenzene	264,000	264,000	--	--	<25	<25	<28	<35	<29	66 J	670	<25	<23	<32	<27	<24
Toluene	818,000	818,000	1,107.2	--	<8.9	<9.0	<9.9	<12	<10	310	27 J	<9.7	<8.8	<11	<9.5	<8.6
1,2,4-Trimethylbenzene ¹	219,000	219,000	493.9	--	<22	<22	<24	<30	<25	290	5,800 C	<24	<22	<27	<23	<21
1,3,5-Trimethylbenzene ¹	182,000	182,000	493.9	--	<23	<23	<26	<32	<26	95	1,600 C	<25	<23	<29	<24	<22
Xylenes, total	260,000	260,000	3,960	--	21 J	<13	83	54	<15	680	1,400	<14	<13	<17	<14	28 J
PAHs (µg/kg)																
Acenaphthene	3,590,000	45,200,000	--	--	<65	<6.6	<6.9	140 J	30 J	190 J	180	<10	<6.5	1,800	<6.8	<6.5
Acenaphthylene	--	--	--	--	<47	<4.9	<5.1	62 J	140	71 J	34 J	<7.5	<4.8	150 J	<5.0	<4.7
Anthracene	17,900,000	100,000,000	196,949.2	--	190 J	<6.2	<6.4	1,000	300	440	17 J	<9.5	<6.1	7,900	<6.3	<6.0
Benzo(a)anthracene	1,140	20,800	--	--	710	<5.0	<5.2	3,000 A	980	850	<4.8	<7.6	<4.9	15,000 A	<5.1	<4.8
Benzo(a)pyrene	115	2,110	470	--	670 A,C	<7.1	<7.4	3,500 A,B,C	900 A,C	1,100 A,C	<7.0	<11	<7.0	15,000 A,B,C	<7.3	<7.0
Benzo(b)fluoranthene	1,150	21,100	478.1	--	860 C	<8.0	<8.3	4,700 A,C	1,200 A,C	1,300 A,C	<7.8	<12	<7.8	20,000 A,C	<8.1	<7.8
Benzo(ghi)perylene	--	--	--	--	270 J	<12	<12	1,400	270	450	<12	<18	<12	3,900	<12	<12
Benzo(k)fluoranthene	11,500	211,000	--	--	480	<11	<11	2,300	480	470	<11	<17	<11	8,200	<11	<11
Chrysene	115,000	2,110,000	144.2	--	660 C	<10	<10	3,400 C	890 C	1,200 C	<9.8	<15	<9.9	15,000 C	<10	<9.8
Dibenzo(a,h)anthracene	115	2,110	--	--	<70	<7.1	<7.4	410 A	90	130 J A	<7.0	<11	<7.0	1,100 A	<7.3	<7.0
Fluoranthene	2,390,000	30,100,000	88,877.8	--	1,400	<6.8	<7.1	6,200	1,000	1,800	<6.7	<11	<6.7	30,000	9.2 J	<6.7
Fluorene	2,390,000	30,100,000	14,829.9	--	<51	<5.2	<5.4	130 J	57	180 J	140	<8.0	<5.1	2,000	<5.3	<5.1
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	--	290 J	<9.6	<10	1,500 A	350	460	<9.3	<15	<9.4	4,100 A	<9.8	<9.3
1-Methylnaphthalene	17,600	72,700	--	--	<88	<9.0	<9.4	120 J	21 J	520 J	3,300	28 J	<8.9	310 J	<9.2	<8.8
2-Methylnaphthalene	239,000	3,010,000	--	--	<66	<6.8	<7.1	100 J	34 J	610 J	5,200	41 J	7.4 J	280 J	<6.9	<6.6
Naphthalene	5,520	24,100	658.2	--	<55	<5.7	6.0 J	<55	46	250 J	1,800 C	11 J	<5.6	290 J	<5.8	<5.5
Phenanthrene	--	--	--	--	790	<5.1	<5.4	2,400	850	2,500	150	14 J	24 J	18,000	5.3 J	<5.0
Pyrene	1,790,000	22,600,000	54,545.5	--	1,600	<7.3	<7.6	5,900	1,200	2,200	<7.1	<11	<7.2	34,000	9.9 J	<7.1
Metals (mg/kg)																
Arsenic ²	0.677	3.00	0.58	8.3	7.0 A,B,C	1.9 A,C	1.5 A,C	3.1 A,B,C	4.1 A,B,C	8.7 A,B,C,D	1.4 A,C	2.3 A,C	4.0 A,B,C	1.6 A,C	2.6 A,C	2.8 A,C
Barium ³	15,300	100,000	164.8	364	62	22	5.8	78	81	66	27	46	29	51	37	23
Cadmium ⁴	71	985	0.75	1.07	0.30	0.096 J	0.097 J	0.21	<0.041	0.69	0.14 J	<0.039	3.8 F1 C,D	0.12 J	0.10 J	0.11 J
Chromium	--	--	360,000	43.5	14	8.0	4.0	11	9.8	13	11	16	10	7.7	14	9.9
Lead ⁵	400	800	27	51.6	160 C,D	5.5	2.1	55 C,D	39 C	350 C,D	5.7	7.4	6.5	11	6.9	8.7
Mercury	3.13	3.13	0.21	--	0.25 C	0.025	0.013 J	0.12	0.081	0.17	0.014 J	0.023	0.022	0.059	0.022	0.023
Selenium	391	5,840	0.52	--	<0.64	<0.60	<0.63	<0.60	1.7 C	<0.60	0.81 J C	<0.63	<0.61 F1	<0.59	<0.63	<0.62
Silver	391	5,840	0.85	--	0.42 J	<0.13	0.20 J	0.21 J	0.17 J	0.17 J	<0.13	0.21 J	0.18 J	<0.13	0.17 J	<0.14
PCBs (mg/kg)																
PCB-1248 (Aroclor 1248)	0.24	0.975	--	--	<0.0087	<0.013	<0.013	<0.0086	<0.013	<0.0086	<0.0084	<0.023	<0.0085	<0.0085	<0.0088	<0.0082
PCB-1254 (Aroclor 1254)	0.239	0.988	--	--	<0.0062	<0.0090	<0.0095	<0.0061	<0.0096	0.0450	<0.0060	<0.017	<0.0061	<0.0060	<0.0063	<0.0059

Notes:

All samples were analyzed for VOCs (August 2022 and July 2023), PAHs, RCRA Metals and PCBs (August 2022 only). Only detected parameters are listed on the table.
 VOCs = Volatile Organic Compounds
 PAHs = Polynuclear Aromatic Hydrocarbons
 PCBs = Polychlorinated Biphenyls
 RCL = Residual Contaminant Level
 BTV = Background Threshold Value
 µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
¹ Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
² Direct Contact RCL listed is for the more stringent m-Xylene.
 A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.
 B Parameter exceeds NR 720 RCL for Industrial Direct Contact.
 C Parameter exceeds NR 720 RCL for Groundwater Pathway.
 D Parameter exceeds Surficial BTV for metals.
 J Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.
 b Compound was found in the blank and sample.
 F1 MS and/or MSD recovery exceeds control limits.
 Chloroform was detected at estimated concentrations and is considered lab related; therefore, these detections have not been bolded as an NR 720 RCL exceedance.
 Methylene chloride was detected in the method blank and is a known lab contaminant; therefore the detections of these compounds is considered as lab contamination and have not been bolded as an exceedance.
 -- No RCL or Surficial BTV established.
 #N/A = Not analyzed
 Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

Table 1: Soil Analytical Results
 AHPRC Phase 2
 733 North 12th Street
 Ramboll Project No. 1690005255-003

Parameters	Soil RCLs			BTV	GP-5 (2-4)	GP-5 (11-12)	GP-5 (16-17)	GP-6 (0-5)	GP-6 (11-12)	GP-6 (22-23)	GP-7 (2-4)	GP-7 (10-11)	GP-7 (16-17)	GP-7 (20-21)	GP-8 (2-4)	GP-8 (6-7)	GP-8 (22-23)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022	8/11/2022
					FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE	NATIVE	FILL	NATIVE	NATIVE
VOCs (µg/kg)																	
Benzene	1,600	7,070	5.1	--	<8.8	9.1 J C	<9.1	<8.4	<9.0	<9.7	<10	<9.3	<9.5	<9.7	<11	<9.3	<8.8
sec-Butylbenzene	145,000	145,000	--	--	<24	<24	<25	<23	<25	<27	<28	<25	<26	<26	<29	<25	<24
n-Butylbenzene	108,000	108,000	--	--	<23	<23	<24	<22	<24	<26	<27	<25	<26	<26	<28	<25	<23
Chloroform	454	1,980	3.3	--	<22	<22	<23	<21	<23	<25	<26	<24	<24	<24	<27	<24	<22
Ethylbenzene	8,020	35,400	1,570	--	11 J	<11	<11	<11	<11	<12	<13	<12	<12	<12	<12	<12	<11
Isopropylbenzene	268,000	268,000	--	--	<23	<23	<24	<22	<24	<26	<27	<25	<26	<25	<28	<24	<23
p-Isopropyltoluene	162,000	162,000	--	--	<22	<22	<23	<21	<23	<24	<25	<23	<24	<24	<26	<23	<22
Methylene chloride	61,800	1,150,000	2.56	--	<98	<98	<100	<94	130 J b C	<110	180 J b C	160 J b C	170 J b C	170 J b C	140 J b C	120 J b C	100 J b C
Naphthalene	5,520	24,100	658.2	--	110 b	23 J b	<21	280	26 J b	<22	42 J b	<21	<22	<22	<24	<21	<20
n-Propylbenzene	264,000	264,000	--	--	<25	<25	<26	<24	<26	<28	<29	<26	<27	<27	<30	<26	<25
Toluene	818,000	818,000	1,107.2	--	45	<8.8	<9.2	<8.5	<9.1	<9.8	<10	<9.4	<9.6	<9.7	<11	<9.4	<8.8
1,2,4-Trimethylbenzene ¹	219,000	219,000	493.9	--	41 J	<22	<22	<21	<22	<24	<25	<23	<23	<24	<26	<23	<22
1,3,5-Trimethylbenzene ¹	182,000	182,000	493.9	--	<23	<23	<24	<22	<24	<25	<27	<24	<25	<25	<27	<24	<23
Xylenes, total	260,000	260,000	3,960	--	140	27 J	28 J	<13	<14	<15	24 J	<14	21 J	<15	<16	<14	<13
PAHs (µg/kg)																	
Acenaphthene	3,590,000	45,200,000	--	--	1,100	<6.5	<6.7	7,500	<6.5	<6.9	13 J	<6.8	<6.9	<6.8	<7.3	<6.7	<6.5
Acenaphthylene	--	--	--	--	<94	<4.8	<4.9	190 J	<4.8	<5.1	5.3 J	<5.0	<5.0	<5.0	<5.3	<4.9	<4.8
Anthracene	17,900,000	100,000,000	196,949.2	--	3,300	<6.1	<6.2	30,000	7.8 J	<6.4	35 J	<6.3	<6.4	<6.3	<6.7	<6.2	<6.0
Benzo(a)anthracene	1,140	20,800	--	--	9,000 A	<4.9	<5.0	32,000 A,B	16 J	<5.2	91	<5.1	<5.1	<5.1	8.9 J	<5.0	<4.9
Benzo(a)pyrene	115	2,110	470	--	11,000 A,B,C	<7.0	<7.2	26,000 A,B,C	12 J	<7.5	86	<7.3	<7.4	<7.4	<7.8	<7.2	<7.0
Benzo(b)fluoranthene	1,150	21,100	478.1	--	13,000 A,C	<7.9	<8.0	33,000 A,B,C	16 J	<8.3	81	<8.2	<8.2	<8.2	11 J	<8.0	<7.8
Benzo(ghi)perylene	--	--	--	--	4,300	<12	<12	7,500	<12	<12	54	<12	<12	<12	<13	<12	<12
Benzo(k)fluoranthene	11,500	211,000	--	--	5,700	<11	<11	15,000 A	<11	<11	44	<11	<11	<11	<11	<11	<11
Chrysene	115,000	2,110,000	144.2	--	10,000 C	<9.9	11 J	30,000 C	16 J	<11	86	<10	<10	<10	<11	<10	12 J
Dibenzo(a,h)anthracene	115	2,110	--	--	980 A	<7.0	<7.2	2,900 A,B	<7.0	<7.5	13 J	<7.3	<7.4	<7.3	<7.8	<7.2	<7.0
Fluoranthene	2,390,000	30,100,000	88,877.8	--	22,000	<6.7	<6.9	80,000	27 J	<7.2	190	<7.0	<7.1	<7.0	16 J	<6.9	<6.7
Fluorene	2,390,000	30,100,000	14,829.9	--	630 J	<5.1	<5.2	12,000	<5.1	<5.4	12 J	<5.3	<5.4	<5.3	<5.7	<5.2	<5.1
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	--	4,100 A	<9.4	<9.6	9,600 A	<9.4	<10	49	<9.8	<9.9	<9.8	<10	<9.7	<9.4
1-Methylnaphthalene	17,600	72,700	--	--	<170	<8.9	<9.1	1,600	<8.9	<9.4	14 J	<9.3	<9.3	<9.3	<9.9	<9.1	<8.8
2-Methylnaphthalene	239,000	3,010,000	--	--	<130	<6.7	<6.8	2,000	<6.7	<7.1	15 J	<7.0	<7.0	<7.0	<7.4	<6.9	11 J
Naphthalene	5,520	24,100	658.2	--	<110	<5.6	<5.7	1,600 C	<5.6	<5.9	17 J	<5.8	<5.9	7.1 J	<6.2	<5.7	<5.6
Phenanthrene	--	--	--	--	8,200	<5.1	<5.2	75,000	17 J	6.6 J	160	<5.3	<5.3	<5.3	9.4 J	<5.2	10 J
Pyrene	1,790,000	22,600,000	54,545.5	--	23,000	<7.2	12 J	62,000 C	27 J	11 J	250	<7.5	<7.6	<7.5	15 J	<7.4	<7.2
Metals (mg/kg)																	
Arsenic ³	0.677	3.00	0.58	8.3	3.0 A,C	3.6 A,B,C	2.3 A,C	2.3 A,C	2.3 A,C	2.0 A,C	5.7 A,B,C	4.2 A,B,C	1.9 A,C	2.7 A,C	4.6 A,B,C	2.9 A,C	3.7 A,B,C
Barium ⁴	15,300	100,000	164.8	364	49	28	49	32	24	12	93	23	23	24	130	20	19
Cadmium ⁴	71	985	0.75	1.07	0.21	0.19 J	0.056 J	0.11 J	0.15 J	0.25	0.21 J	0.11 J	0.12 J	0.083 J	0.087 J	0.070 J	0.13 J
Chromium	--	--	360,000	43.5	9.5	16	16	9.5	9.6	4.5	19	10	9.7	9.8	19	9.5	8.1
Lead ⁵	400	800	27	51.6	54 C,D	6.6	7.0	7.6	6.8	4.2	69 C,D	7.8	5.2	5.7	89 C,D	5.6	6.5
Mercury	3.13	3.13	0.21	--	0.063	0.014 J	0.019	0.033	0.019 b	0.015 J b	0.39 C	0.015 J	0.020	0.018 J	0.13 b	0.037 b	0.018 b
Selenium	391	5,840	0.52	--	<0.59	0.66 J C	<0.61	<0.61	<0.61	<0.65	<0.69	<0.65	<0.62	<0.64	<0.71	<0.61	<0.63
Silver	391	5,840	0.85	--	<0.13	0.22 J	0.16 J	0.17 J	<0.13	<0.14	0.35 J	<0.14	0.16 J	0.16 J	0.29 J	<0.13	0.14 J
PCBs (mg/kg)																	
PCB-1248 (Aroclor 1248)	0.24	0.975	--	--	0.0500	<0.0086	<0.0086	<0.0081	<0.013	<0.0088	<0.014	<0.0090	<0.0089	<0.0090	<0.0096	<0.0089	<0.0084
PCB-1254 (Aroclor 1254)	0.239	0.988	--	--	<0.0060	<0.0061	<0.0062	<0.0058	<0.0093	<0.0063	<0.0098	<0.0064	<0.0063	<0.0064	<0.0068	<0.0063	<0.0060

Notes:
 All samples were analyzed for VOCs (August 2022 and July 2023), PAHs, RCRA Metals and PCBs (August 2022 only). Only detected parameters are listed on the table.
 VOCs = Volatile Organic Compounds
 PAHs = Polynuclear Aromatic Hydrocarbons
 PCBs = Polychlorinated Biphenyls
 RCL = Residual Contaminant Level
 BTV = Background Threshold Value
 µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
¹ Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
² Direct Contact RCL listed is for the more stringent m-Xylene.
 A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.
 B Parameter exceeds NR 720 RCL for Industrial Direct Contact.
 C Parameter exceeds NR 720 RCL for Groundwater Pathway.
 D Parameter exceeds Surficial BTV for metals.
 J Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximation.
 b Compound was found in the blank and sample.
 F1 MS and/or MSD recovery exceeds control limits.
 Chloroform was detected at estimated concentrations and is considered lab related; therefore, these detections have not been bolded as an NR 720 RCL exceedance.
 Methylene chloride was detected in the method blank and is a known lab contaminant; therefore the detections of these compounds is considered as lab contamination and have not been bolded as an exceedance.
 -- No RCL or Surficial BTV established.
 #N/A = Not analyzed
 Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

Table 1: Soil Analytical Results
 AHPRC Phase 2
 733 North 12th Street
 Ramboll Project No. 1690005255-003

Parameters	Soil RCLs			BTV	GP-9 (2-4)	GP-9 (6-8)	GP-9 (16-18)	GP-9 (19-20)	GP-10 (2-4)	GP-10 (10-12)	GP-10 (16-18)	GP-11 (2-4)	GP-11 (10-12)	GP-11 (16-18)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023
					FILL	FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE
VOCs (µg/kg)														
Benzene	1,600	7,070	5.1	--	<12	<11	<10	<9.7	13 J C	12 J C	<11	<13	<9.8	<10
sec-Butylbenzene	145,000	145,000	--	--	<33	390	<29	<27	<29	<27	<29	<35	<27	<27
n-Butylbenzene	108,000	108,000	--	--	<32	<30	<28	<26	<32	41 J	<28	<34	<26	<27
Chloroform	454	1,980	3.3	--	<31	<29	<27	<25	<30	<27	37 J C	<33	<25	<25
Ethylbenzene	8,020	35,400	1,570	--	<15	<14	<13	<12	<15	<13	<13	<16	<12	<13
Isopropylbenzene	268,000	268,000	--	--	<32	52 J	<28	<26	<31	<28	<28	<34	<26	<26
p-Isopropyltoluene	162,000	162,000	--	--	<30	35 J	<26	<24	<30	<27	<26	<32	<24	<25
Methylene chloride	61,800	1,150,000	2.56	--	150 J b C	<130	<120	<110	<130	<120	<120	150 J b C	<110	130 J b C
Naphthalene	5,520	24,100	658.2	--	<28	<26	150	<22	89	170	100	<30	<22	<23
n-Propylbenzene	264,000	264,000	--	--	<34	55 J	<30	<28	<34	<30	<30	<37	<28	<29
Toluene	818,000	818,000	1,107.2	--	<12	17 J b	19 b	<9.8	48 b	20 b	17 J b	<13	<9.8	<10
1,2,4-Trimethylbenzene ¹	219,000	219,000	493.9	--	<30	<28	81	58 J b	<29	75	65 J	<32	<24	<25
1,3,5-Trimethylbenzene ¹	182,000	182,000	493.9	--	<31	<30	<27	<25	<31	<28	<27	<34	<25	<26
Xylenes, total	260,000	260,000	3,960	--	<18	<17	20 J	<15	72	19 J	<16	<19	<15	<15
PAHs (µg/kg)														
Acenaphthene	3,590,000	45,200,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Acenaphthylene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Anthracene	17,900,000	100,000,000	196,949.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)anthracene	1,140	20,800	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)pyrene	115	2,110	470	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(b)fluoranthene	1,150	21,100	478.1	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(ghi)perylene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(k)fluoranthene	11,500	211,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Chrysene	115,000	2,110,000	144.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Dibenzo(a,h)anthracene	115	2,110	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fluoranthene	2,390,000	30,100,000	88,877.8	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fluorene	2,390,000	30,100,000	14,829.9	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1-Methylnaphthalene	17,600	72,700	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
2-Methylnaphthalene	239,000	3,010,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Naphthalene	5,520	24,100	658.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Phenanthrene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Pyrene	1,790,000	22,600,000	54,545.5	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Metals (mg/kg)														
Arsenic ²	0.677	3.00	0.58	8.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Barium ³	15,300	100,000	164.8	364	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium ³	71	985	0.75	1.07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium	--	--	360,000	43.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Lead ³	400	800	27	51.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Mercury	3.13	3.13	0.21	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Selenium	391	5,840	0.52	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Silver	391	5,840	0.85	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PCBs (mg/kg)														
PCB-1248 (Aroclor 1248)	0.24	0.975	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PCB-1254 (Aroclor 1254)	0.239	0.988	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

All samples were analyzed for VOCs (August 2022 and July 2023), PAHs, RCRA Metals and PCBs (August 2022 only). Only detected parameters are listed on the table.
 VOCs = Volatile Organic Compounds
 PAHs = Polynuclear Aromatic Hydrocarbons
 PCBs = Polychlorinated Biphenyls
 RCL = Residual Contaminant Level
 BTV = Background Threshold Value
 µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
¹ Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
² Direct Contact RCL listed is for the more stringent m-Xylene.
A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.
B Parameter exceeds NR 720 RCL for Industrial Direct Contact.
C Parameter exceeds NR 720 RCL for Groundwater Pathway.
D Parameter exceeds Surficial BTV for metals.
J Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximation.
b Compound was found in the blank and sample.
F1 MS and/or MSD recovery exceeds control limits.
 Chloroform was detected at estimated concentrations and is considered lab related; therefore, these detections have not been bolded as an NR 720 RCL exceedance.
 Methylene chloride was detected in the method blank and is a known lab contaminant; therefore the detections of these compounds is considered as lab contamination and have not been bolded as an exceedance.
 -- No RCL or Surficial BTV established.
 #N/A = Not analyzed
 Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

Table 1: Soil Analytical Results
AHPRC Phase 2
733 North 12th Street
Ramboll Project No. 1690005255-003

Parameters	Soil RCLs			BTV	GP-12 (2-4)	GP-12 (10-12)	GP-12 (16-18)	GP-13 (2-4)	GP-13 (10-12)	GP-13 (16-18)	GP-14 (2-4)	GP-14 (10-12)	GP-14 (16-18)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway		7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023
VOCs (µg/kg)					FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE	FILL	NATIVE	NATIVE
Benzene	1,600	7,070	5.1	--	32 C	<12	<10	<12	<9.3	<12	<10	<12	<12
sec-Butylbenzene	145,000	145,000	--	--	<32	400	<29	<32	<25	<34	<29	140	<32
n-Butylbenzene	108,000	108,000	--	--	40 J	620	<28	<31	<25	<33	<28	<32	<31
Chloroform	454	1,980	3.3	--	30 J C	49 J C	<27	<30	<24	<31	<27	<31	<30
Ethylbenzene	8,020	35,400	1,570	--	41	<15	<13	<15	<12	<15	<13	<15	<15
Isopropyltoluene	268,000	268,000	--	--	32 J	53 J	<28	<31	<24	<32	<28	41 J	<31
p-Isopropyltoluene	162,000	162,000	--	--	32 J	370	<26	<29	<23	<31	<26	39 J	<29
Methylene chloride	61,800	1,150,000	2.56	--	<130	<130	130 J b C	140 J b C	<100	<140	<120	<140	<130
Naphthalene	5,520	24,100	658.2	--	210	380	43 J b	<27	<21	<28	<24	79 J	<27
n-Propylbenzene	264,000	264,000	--	--	47 J	<34	<30	<30	<26	<33	<30	<34	<34
Toluene	818,000	818,000	1,107.2	--	180 b	18 J b	<11	<12	<9.4	<12	<11	19 J b	<12
1,2,4-Trimethylbenzene ¹	219,000	219,000	493.9	--	240	330	<26	<29	<23	<30	<26	<30	<29
1,3,5-Trimethylbenzene ¹	182,000	182,000	493.9	--	89	<31	<27	<27	<24	<32	<27	<32	<31
Xylenes, total	260,000	260,000	3,960	--	310	<18	<16	<18	<14	<19	<16	<18	<18
PAHs (µg/kg)													
Acenaphthene	3,590,000	45,200,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Acenaphthylene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Anthracene	17,900,000	100,000,000	196,949.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)anthracene	1,140	20,800	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(a)pyrene	115	2,110	470	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(b)fluoranthene	1,150	21,100	478.1	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(ghi)perylene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Benzo(k)fluoranthene	11,500	211,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Chrysene	115,000	2,110,000	144.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Dibenzo(a,h)anthracene	115	2,110	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fluoranthene	2,390,000	30,100,000	88,877.8	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fluorene	2,390,000	30,100,000	14,829.9	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1-Methylnaphthalene	17,600	72,700	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
2-Methylnaphthalene	239,000	3,010,000	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Naphthalene	5,520	24,100	658.2	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Phenanthrene	--	--	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Pyrene	1,790,000	22,600,000	54,545.5	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Metals (mg/kg)													
Arsenic ²	0.677	3.00	0.58	8.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Barium ³	15,300	100,000	164.8	364	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium ³	71	985	0.75	1.07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium	--	--	360,000	43.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Lead ³	400	800	27	51.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Mercury	3.13	3.13	0.21	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Selenium	391	5,840	0.52	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Silver	391	5,840	0.85	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PCBs (mg/kg)													
PCB-1248 (Aroclor 1248)	0.24	0.975	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PCB-1254 (Aroclor 1254)	0.239	0.988	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

All samples were analyzed for VOCs (August 2022 and July 2023), PAHs, RCRA Metals and PCBs (August 2022 only). Only detected parameters are listed on the table.

VOCs = Volatile Organic Compounds

PAHs = Polynuclear Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

RCL = Residual Contaminant Level

BTV = Background Threshold Value

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

¹ Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.

² Direct Contact RCL listed is for the more stringent m-Xylene.

A Parameter exceeds NR 720 Residual Contaminant Level (RCL) for Non-Industrial Direct Contact.

B Parameter exceeds NR 720 RCL for Industrial Direct Contact.

C Parameter exceeds NR 720 RCL for Groundwater Pathway.

D Parameter exceeds Surficial BTV for metals.

J Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approx

b Compound was found in the blank and sample

F1 MS and/or MSD recovery exceeds control limits.

Chloroform was detected at estimated concentrations and is considered lab related; therefore, these detections have not been bolded as an NR 720 RCL exceedance.

Methylene chloride was detected in the method blank and is a known lab contaminant; therefore the detections of these compounds is considered as lab contamination and have not been bolded as an exceedance.

-- No RCL or Surficial BTV established.

#N/A = Not analyzed

Soil RCLs and surficial BTVs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

Table 2: Water Analytical Results
AHPRC Phase 2
733 North 12th Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005255-003

Parameters	MMSD Pollutant Limits	GP-13
		07/12/2023
VOCs (mg/L)		
Benzene	--	<0.00015
Bromobenzene	--	<0.00036
Bromochloromethane	--	<0.00043
Bromodichloromethane	--	<0.00037
Bromoform	--	<0.00048
Bromomethane	--	<0.0008
n-Butylbenzene	--	<0.00039
sec-Butylbenzene	--	<0.0004
tert-Butylbenzene	--	<0.0004
Carbon tetrachloride	--	<0.00038
Chlorobenzene	--	<0.00039
Chloroethane	--	<0.00051
Chloroform	--	<0.00037
Chloromethane	--	<0.00032
2-Chlorotoluene	--	<0.00031
4-Chlorotoluene	--	<0.00035
Dibromochloromethane	--	<0.00049
1,2-Dibromo-3-chloropropane	--	<0.002
1,2-Dibromoethane	--	<0.00039
Dibromomethane	--	<0.00027
1,2-Dichlorobenzene	--	<0.00033
1,3-Dichlorobenzene	--	<0.0004
1,4-Dichlorobenzene	--	<0.00036
Dichlorodifluoromethane	--	<0.00067
1,1-Dichloroethane	--	<0.00041
1,2-Dichloroethane	--	<0.00039
1,1-Dichloroethene	--	<0.00039
cis-1,2-Dichloroethene	--	<0.00041
trans-1,2-Dichloroethene	--	<0.00035
1,2-Dichloropropane	--	<0.00043
1,3-Dichloropropane	--	<0.00036
2,2-Dichloropropane	--	<0.00044
1,1-Dichloropropene	--	<0.0003
cis-1,3-Dichloropropene	--	<0.00042
trans-1,3-Dichloropropene	--	<0.00036
Diisopropyl ether	--	<0.00028
Ethylbenzene	--	<0.00018
Hexachlorobutadiene	--	<0.00045
Isopropylbenzene	--	<0.00039
p-Isopropyltoluene	--	<0.00036
Methylene chloride	--	<0.0016
Methyl-tert-butyl-ether	--	<0.00039
Naphthalene	--	0.00046 J B
n-Propylbenzene	--	<0.00041
Styrene	--	<0.00039
1,1,1,2-Tetrachloroethane	--	<0.00046
1,1,1,2-Tetrachloroethane	--	<0.0004
Tetrachloroethene	--	<0.00037
Toluene	--	<0.00015
1,2,3-Trichlorobenzene	--	<0.00046
1,2,4-Trichlorobenzene	--	<0.00034
1,1,1-Trichloroethane	--	<0.00038
1,1,2-Trichloroethane	--	<0.00035
Trichloroethene	--	<0.00016
Trichlorofluoromethane	--	<0.00043
1,2,3-Trichloropropane	--	<0.00041
1,2,4-Trimethylbenzene ¹	--	<0.00036
1,3,5-Trimethylbenzene ¹	--	<0.00025
Vinyl chloride	--	<0.0002
Xylenes, total	--	<0.00022

Table 2: Water Analytical Results
AHPRC Phase 2
733 North 12th Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005255-003

Parameters	MMSD Pollutant Limits	GP-13
		07/12/2023
SVOCs (mg/L)		
Acenaphthene	--	0.00040 J
Acenaphthylene	--	<0.00023
Anthracene	--	<0.00029
Benzo(a)anthracene	--	0.00032
Benzo(a)pyrene	5	0.00023
Benzo(b)fluoranthene	--	0.00029
Benzo(g,h,i)perylene	--	<0.00033
Benzo(k)fluoranthene	--	0.00011 J
4-Bromophenyl phenyl ether	--	<0.00047
Butylbenzylphthalate	--	<0.00042
Carbazole	--	<0.00031
Indeno(1,2,3-cd)pyrene	--	0.00018
4-Chloro-3-methylphenol	--	<0.002
4-Chloroaniline	--	<0.0018
bis(2-Chloroethoxy)methane	--	<0.00025
bis(2-Chloroethyl)ether	--	<0.00026
2-Chloronaphthalene	--	<0.00021
2-Chlorophenol	--	<0.00049
4-Chlorophenyl phenyl ether	--	<0.00056
Chrysene	--	0.00026
Dibenzo(a,h)anthracene	--	<0.000044
Dibenzofuran	5	<0.00023
1,2-Dichlorobenzene	--	<0.00022
1,3-Dichlorobenzene	--	<0.00018
1,4-Dichlorobenzene	--	<0.00018
3,3-Dichlorobenzidine	5	<0.0015
2,4-Dichlorophenol	--	<0.0023
Diethylphthalate	--	0.0025 J
2,4-Dimethylphenol	--	<0.0016
Dimethylphthalate	--	<0.00027
4,6-Dinitro-2-methylphenol	--	<0.0052
2,4-Dinitrophenol	--	<0.0075
2,4-Dinitrotoluene	--	<0.00021
2,6-Dinitrotoluene	--	<0.000065
Di-n-butylphthalate	--	<0.00064
Di-n-octylphthalate	--	<0.00092
bis(2-Ethylhexyl)phthalate	--	<0.0015
Fluoranthene	5	0.00073 J
Fluorene	--	0.00022 J
Hexachlorobenzene	--	<0.000069
Hexachlorobutadiene	--	<0.00045
Hexachlorocyclopentadiene	--	<0.0056
Hexachloroethane	--	<0.00052
Isophorone	--	<0.00033
2-Methylnaphthalene	--	0.00010 J
2-Methylphenol	--	<0.00027
Naphthalene	--	0.00034 J
2-Nitroaniline	--	<0.0011
4-Nitroaniline	--	<0.0015
3-Nitroaniline	--	<0.0016
Nitrobenzene	--	<0.00039
4-Nitrophenol	--	<0.0065
2-Nitrophenol	--	<0.0022
N-Nitroso-di-n-propylamine	--	<0.00013
N-Nitrosodiphenylamine	--	<0.00032
Pentachlorophenol	--	<0.0034
Phenanthrene	--	0.00080 J
Phenol	--	<0.00059
Pyrene	--	0.00058 J
1,2,4-Trichlorobenzene	--	<0.00021
2,4,6-Trichlorophenol	5	<0.00063
2,4,5-Trichlorophenol	--	<0.0022

Table 2: Water Analytical Results
AHPRC Phase 2
733 North 12th Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005255-003

Parameters	MMSD Pollutant Limits	GP-13
		07/12/2023
Metals (mg/L)		
Arsenic	0.6	0.016
Barium	--	0.570
Cadmium	1.5	0.00078
Chromium	64	0.044
Lead	2.0	0.030 B
Selenium	--	0.0022 J
Silver	5.8	0.00012 J
Mercury	0.0026	<0.000079
Hexane Extractable Materials (mg/L)		
HEM (Oil & Grease)	300	2.2 J
Total Suspended Solids - w/o Filter (mg/L)		
TSS	--	1,900

Notes:

HEM = Hexane Extractable Materials
TSS = Total Suspended Solids
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
mg/L = milligrams per Liter
-- No MMSD pollutant limit established.
#N/A = Not analyzed
J = Result is less than the Reporting Limit (RL)
but greater than or equal to the Method
Detection Limit (MDL) and the concentration is
an approximate value.
B = Compound was found in the blank and sample.
Milwaukee Metropolitan Sewerage District (MMSD) permit limits are
based on the Local Limits specified in MMSD Rules 11.203.



ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-220837-1
Client Project/Site: AHPRC 2 - 1690005255-002

For:
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Attn: Susan Petrofske



Authorized for release by:
8/30/2022 3:17:46 PM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

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results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Job ID: 500-220837-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-220837-1

Comments

No additional comments.

Receipt

The samples were received on 8/12/2022 5:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.6° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC as sample #27 and logged.

GC/MS VOA

Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. GP-2 (2-4) (500-220837-15) and GP-4 (2-4) (500-220837-17)

Methods 8260B, 8260D: Methylene chloride was detected in the following items: GP-7 (2-4) (500-220837-1), GP-7 (10-11) (500-220837-2), GP-7 (16-17) (500-220837-3), GP-7 (20-21) (500-220837-4), GP-3 (24-25) (500-220837-11), GP-1 (2-4) (500-220837-12), GP-1 (8-9) (500-220837-13), GP-1 (9-10) (500-220837-14), GP-2 (2-4) (500-220837-15), GP-4 (9-10) (500-220837-18), GP-6 (11-12) (500-220837-21), GP-8 (2-4) (500-220837-23), GP-8 (6-7) (500-220837-24) and GP-8 (22-23) (500-220837-25). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: GP-3 (12-13) (500-220837-9). Elevated reporting limits (RLs) are provided.

Method 8260B: The laboratory control sample (LCS) for 670503 recovered outside control limits for Dichlorodifluoromethane. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported. GP-6 (11-12) (500-220837-21), GP-6 (22-23) (500-220837-22), GP-8 (2-4) (500-220837-23), GP-8 (6-7) (500-220837-24), GP-8 (22-23) (500-220837-25) and Trip Blank (500-220837-27)

Method 8260B: The method blank for preparation batch 671503 contained analytes above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed. GP-7 (2-4) (500-220837-1), GP-7 (10-11) (500-220837-2), GP-7 (16-17) (500-220837-3), GP-7 (20-21) (500-220837-4), GP-3 (24-25) (500-220837-11), GP-1 (2-4) (500-220837-12), GP-1 (8-9) (500-220837-13), GP-1 (9-10) (500-220837-14), GP-4 (2-4) (500-220837-17), GP-4 (9-10) (500-220837-18), GP-4 (16-17) (500-220837-19), GP-6 (11-12) (500-220837-21), GP-6 (22-23) (500-220837-22), GP-8 (2-4) (500-220837-23), GP-8 (6-7) (500-220837-24), GP-8 (22-23) (500-220837-25) and Trip Blank (500-220837-27)

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-671916 was outside the method criteria for the following analyte(s): Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample contained one acid surrogate outside acceptance limits: (MB 500-671491/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270E: Naphthalene-d8 Internal standard (ISTD) response for the following sample was outside of acceptance limits: Protocol B (500-220837-26). Analytes associated to this internal standard was non-detect; therefore, re-analysis was not performed.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: GP-5 (2-4) (500-220837-5), GP-4 (2-4)

Case Narrative

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Job ID: 500-220837-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

(500-220837-17) and GP-6 (0-5) (500-220837-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: GP-5 (2-4) (500-220837-5), GP-3 (2-4) (500-220837-8), GP-1 (2-4) (500-220837-12), GP-2 (2-4) (500-220837-15), GP-4 (2-4) (500-220837-17) and GP-6 (0-5) (500-220837-20). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: Protocol B (500-220837-26). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample contained one acid surrogate outside acceptance limits: Protocol B (500-220837-26). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: GP-6 (0-5) (500-220837-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: (CCVIS 500-672139/3). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: Surrogate Tetrachloro-m-xylene and DCB Decachlorobiphenyl recovery for the following the method blank (MB) were outside upper control limits: (MB 500-671936/1-A). However the other QC samples had acceptable limits; therefore, re-analysis was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following samples was outside control limits: GP-4 (9-10) (500-220837-18), GP-6 (22-23) (500-220837-22), GP-8 (2-4) (500-220837-23), GP-8 (6-7) (500-220837-24), Protocol B (500-220837-26) and (LCS 500-671936/2-A). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: Surrogate Tetrachloro-m-xylene and DCB Decachlorobiphenyl recovery for the laboratory control sample (LCS) were outside upper control limits: (LCS 500-671850/2-A). However The associate analytes recoveries were within control limit; therefore, re-analysis was not performed.

Method 8082A: Surrogate Tetrachloro-m-xylene recovery for the following samples was outside control limits: (CCVIS 500-672212/3) and (MB 500-671850/1-A). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: GP-7 (10-11) (500-220837-2), GP-7 (16-17) (500-220837-3), GP-7 (20-21) (500-220837-4), GP-5 (2-4) (500-220837-5), GP-5 (16-17) (500-220837-7), GP-3 (2-4) (500-220837-8), GP-1 (2-4) (500-220837-12), GP-2 (7-9) (500-220837-16) and (500-220837-C-6-E MSD). The reagent lot number used was: N17I005.

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

Metals

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

General Chemistry

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-671318 and analytical batch 500-671922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control samples (HLCS, LCS, LLCS) recoveries were within acceptance limits.

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

Case Narrative

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Job ID: 500-220837-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Organic Prep

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

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Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (2-4)

Lab Sample ID: 500-220837-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	180	J B	350	110	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	42	J B	70	23	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	24	J	35	15	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	13	J	39	7.1	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	5.3	J	39	5.2	ug/Kg	1	✳	8270D	Total/NA
Anthracene	35	J	39	6.6	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	91		39	5.3	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	86		39	7.6	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	81		39	8.5	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	54		39	13	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	44		39	12	ug/Kg	1	✳	8270D	Total/NA
Chrysene	86		39	11	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	13	J	39	7.6	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	190		39	7.3	ug/Kg	1	✳	8270D	Total/NA
Fluorene	12	J	39	5.6	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	49		39	10	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	17	J	39	6.1	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	160		39	5.5	ug/Kg	1	✳	8270D	Total/NA
Pyrene	250		39	7.8	ug/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	14	J	80	9.6	ug/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	15	J	80	7.3	ug/Kg	1	✳	8270D	Total/NA
Arsenic	5.7		1.2	0.40	mg/Kg	1	✳	6010C	Total/NA
Barium	93		1.2	0.13	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.21	J	0.23	0.042	mg/Kg	1	✳	6010C	Total/NA
Chromium	19		1.2	0.58	mg/Kg	1	✳	6010C	Total/NA
Lead	69		0.58	0.27	mg/Kg	1	✳	6010C	Total/NA
Silver	0.35	J	0.58	0.15	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.39		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-7 (10-11)

Lab Sample ID: 500-220837-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	160	J B	320	100	ug/Kg	50	✳	8260B	Total/NA
Arsenic	4.2		1.1	0.38	mg/Kg	1	✳	6010C	Total/NA
Barium	23		1.1	0.13	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.11	J	0.22	0.040	mg/Kg	1	✳	6010C	Total/NA
Chromium	10		1.1	0.54	mg/Kg	1	✳	6010C	Total/NA
Lead	7.8		0.55	0.25	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.015	J	0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-7 (16-17)

Lab Sample ID: 500-220837-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	170	J B	330	110	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	21	J	33	14	ug/Kg	50	✳	8260B	Total/NA
Arsenic	1.9		1.1	0.36	mg/Kg	1	✳	6010C	Total/NA
Barium	23		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.12	J	0.21	0.038	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.7		1.1	0.53	mg/Kg	1	✳	6010C	Total/NA
Lead	5.2		0.53	0.25	mg/Kg	1	✳	6010C	Total/NA
Silver	0.16	J	0.53	0.14	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.020		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (20-21)

Lab Sample ID: 500-220837-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	170	J B	330	110	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	7.1	J	38	5.8	ug/Kg	1	✳	8270D	Total/NA
Arsenic	2.7		1.1	0.37	mg/Kg	1	✳	6010C	Total/NA
Barium	24		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.083	J	0.22	0.039	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.8		1.1	0.54	mg/Kg	1	✳	6010C	Total/NA
Lead	5.7		0.55	0.25	mg/Kg	1	✳	6010C	Total/NA
Silver	0.16	J	0.55	0.14	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.018	J	0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-220837-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	11	J	15	11	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	110	B	60	20	ug/Kg	50	✳	8260B	Total/NA
Toluene	45		15	8.9	ug/Kg	50	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	41	J	60	22	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	140		30	13	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	1100		710	130	ug/Kg	20	✳	8270D	Total/NA
Anthracene	3300		710	120	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]anthracene	9000		710	96	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]pyrene	11000		710	140	ug/Kg	20	✳	8270D	Total/NA
Benzo[b]fluoranthene	13000		710	150	ug/Kg	20	✳	8270D	Total/NA
Benzo[g,h,i]perylene	4300		710	230	ug/Kg	20	✳	8270D	Total/NA
Benzo[k]fluoranthene	5700		710	210	ug/Kg	20	✳	8270D	Total/NA
Chrysene	10000		710	190	ug/Kg	20	✳	8270D	Total/NA
Dibenz(a,h)anthracene	980		710	140	ug/Kg	20	✳	8270D	Total/NA
Fluoranthene	22000		710	130	ug/Kg	20	✳	8270D	Total/NA
Fluorene	630	J	710	100	ug/Kg	20	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4100		710	190	ug/Kg	20	✳	8270D	Total/NA
Phenanthrene	8200		710	100	ug/Kg	20	✳	8270D	Total/NA
Pyrene	23000		710	140	ug/Kg	20	✳	8270D	Total/NA
PCB-1248	0.050		0.018	0.0085	mg/Kg	1	✳	8082A	Total/NA
Arsenic	3.0		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	49		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.21		0.20	0.036	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.5		1.0	0.50	mg/Kg	1	✳	6010C	Total/NA
Lead	54		0.50	0.23	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.063		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-5 (11-12)

Lab Sample ID: 500-220837-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.1	J	15	8.8	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	23	J B	60	20	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	27	J	30	13	ug/Kg	50	✳	8260B	Total/NA
Arsenic	3.6		1.0	0.36	mg/Kg	1	✳	6010C	Total/NA
Barium	28		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.19	J	0.21	0.038	mg/Kg	1	✳	6010C	Total/NA
Chromium	16		1.0	0.52	mg/Kg	1	✳	6010C	Total/NA
Lead	6.6		0.52	0.24	mg/Kg	1	✳	6010C	Total/NA
Selenium	0.66	J	1.0	0.62	mg/Kg	1	✳	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (11-12) (Continued)

Lab Sample ID: 500-220837-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.22	J	0.52	0.14	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.014	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-5 (16-17)

Lab Sample ID: 500-220837-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	28	J	31	14	ug/Kg	50	☼	8260B	Total/NA
Chrysene	11	J	37	10	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	37	7.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.3		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	49		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.056	J	0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	16		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	7.0		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Silver	0.16	J	0.52	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.019		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-220837-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	64		18	10	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	97		18	13	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	46	J	70	27	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	360	B	70	23	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	66	J	70	29	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	42	J	70	25	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	63	J	70	28	ug/Kg	50	☼	8260B	Total/NA
Toluene	310		18	10	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	290		70	25	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	95		70	27	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	680		35	15	ug/Kg	50	☼	8260B	Total/NA
Acenaphthene	190	J	360	66	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	71	J	360	48	ug/Kg	10	☼	8270D	Total/NA
Anthracene	440		360	61	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	850		360	49	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1100		360	71	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1300		360	79	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	450		360	120	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	470		360	110	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1200		360	100	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	360	71	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1800		360	68	ug/Kg	10	☼	8270D	Total/NA
Fluorene	180	J	360	52	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	460		360	95	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	250	J	360	56	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	2500		360	51	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2200		360	73	ug/Kg	10	☼	8270D	Total/NA
1-Methylnaphthalene	520	J	740	90	ug/Kg	10	☼	8270D	Total/NA
2-Methylnaphthalene	610	J	740	68	ug/Kg	10	☼	8270D	Total/NA
PCB-1254	0.045		0.018	0.0061	mg/Kg	1	☼	8082A	Total/NA
Arsenic	8.7		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	66		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (2-4) (Continued)

Lab Sample ID: 500-220837-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.69		0.20	0.037	mg/Kg	1	☒	6010C	Total/NA
Chromium	13		1.0	0.51	mg/Kg	1	☒	6010C	Total/NA
Lead	350		0.51	0.24	mg/Kg	1	☒	6010C	Total/NA
Silver	0.17	J	0.51	0.13	mg/Kg	1	☒	6010C	Total/NA
Mercury	0.17		0.018	0.0059	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: GP-3 (12-13)

Lab Sample ID: 500-220837-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	300		30	22	ug/Kg	100	☒	8260B	Total/NA
Isopropylbenzene	390		120	46	ug/Kg	100	☒	8260B	Total/NA
Naphthalene	5700	B	120	40	ug/Kg	100	☒	8260B	Total/NA
n-Butylbenzene	1800		120	47	ug/Kg	100	☒	8260B	Total/NA
N-Propylbenzene	670		120	50	ug/Kg	100	☒	8260B	Total/NA
p-Isopropyltoluene	780		120	44	ug/Kg	100	☒	8260B	Total/NA
sec-Butylbenzene	820		120	48	ug/Kg	100	☒	8260B	Total/NA
Toluene	27	J	30	18	ug/Kg	100	☒	8260B	Total/NA
1,2,4-Trimethylbenzene	5800		120	43	ug/Kg	100	☒	8260B	Total/NA
1,3,5-Trimethylbenzene	1600		120	46	ug/Kg	100	☒	8260B	Total/NA
Xylenes, Total	1400		60	27	ug/Kg	100	☒	8260B	Total/NA
Acenaphthene	180		36	6.5	ug/Kg	1	☒	8270D	Total/NA
Acenaphthylene	34	J	36	4.7	ug/Kg	1	☒	8270D	Total/NA
Anthracene	17	J	36	6.0	ug/Kg	1	☒	8270D	Total/NA
Fluorene	140		36	5.1	ug/Kg	1	☒	8270D	Total/NA
Naphthalene	1800		36	5.5	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	150		36	5.0	ug/Kg	1	☒	8270D	Total/NA
1-Methylnaphthalene - DL	3300		730	88	ug/Kg	10	☒	8270D	Total/NA
2-Methylnaphthalene - DL	5200		730	66	ug/Kg	10	☒	8270D	Total/NA
Arsenic	1.4		1.0	0.36	mg/Kg	1	☒	6010C	Total/NA
Barium	27		1.0	0.12	mg/Kg	1	☒	6010C	Total/NA
Cadmium	0.14	J	0.21	0.038	mg/Kg	1	☒	6010C	Total/NA
Chromium	11		1.0	0.52	mg/Kg	1	☒	6010C	Total/NA
Lead	5.7		0.52	0.24	mg/Kg	1	☒	6010C	Total/NA
Selenium	0.81	J	1.0	0.61	mg/Kg	1	☒	6010C	Total/NA
Mercury	0.014	J	0.018	0.0059	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: GP-3 (16-17)

Lab Sample ID: 500-220837-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	26	J B	66	22	ug/Kg	50	☒	8260B	Total/NA
Naphthalene	11	J	56	8.7	ug/Kg	1	☒	8270D	Total/NA
Phenanthrene	14	J	56	7.9	ug/Kg	1	☒	8270D	Total/NA
1-Methylnaphthalene	28	J	110	14	ug/Kg	1	☒	8270D	Total/NA
2-Methylnaphthalene	41	J	110	10	ug/Kg	1	☒	8270D	Total/NA
Arsenic	2.3		1.1	0.37	mg/Kg	1	☒	6010C	Total/NA
Barium	46		1.1	0.12	mg/Kg	1	☒	6010C	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☒	6010C	Total/NA
Lead	7.4		0.54	0.25	mg/Kg	1	☒	6010C	Total/NA
Silver	0.21	J	0.54	0.14	mg/Kg	1	☒	6010C	Total/NA
Mercury	0.023		0.018	0.0060	mg/Kg	1	☒	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (24-25)

Lab Sample ID: 500-220837-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	180	J B	300	98	ug/Kg	50	✳	8260B	Total/NA
Phenanthrene	24	J	36	5.1	ug/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	7.4	J	73	6.7	ug/Kg	1	✳	8270D	Total/NA
Arsenic	4.0		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	29		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	3.8	F1	0.21	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	10		1.0	0.51	mg/Kg	1	✳	6010C	Total/NA
Lead	6.5		0.52	0.24	mg/Kg	1	✳	6010C	Total/NA
Silver	0.18	J	0.52	0.13	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.022		0.018	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-220837-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	150	J B	300	99	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	38	J B	61	20	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	21	J	30	13	ug/Kg	50	✳	8260B	Total/NA
Anthracene	190	J	360	60	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene	710		360	48	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene	670		360	70	ug/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene	860		360	78	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	270	J	360	120	ug/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	480		360	110	ug/Kg	10	✳	8270D	Total/NA
Chrysene	660		360	98	ug/Kg	10	✳	8270D	Total/NA
Fluoranthene	1400		360	67	ug/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	290	J	360	93	ug/Kg	10	✳	8270D	Total/NA
Phenanthrene	790		360	50	ug/Kg	10	✳	8270D	Total/NA
Pyrene	1600		360	72	ug/Kg	10	✳	8270D	Total/NA
Arsenic	7.0		1.1	0.37	mg/Kg	1	✳	6010C	Total/NA
Barium	62		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.30		0.22	0.039	mg/Kg	1	✳	6010C	Total/NA
Chromium	14		1.1	0.54	mg/Kg	1	✳	6010C	Total/NA
Lead	160		0.55	0.25	mg/Kg	1	✳	6010C	Total/NA
Silver	0.42	J	0.55	0.14	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.25		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-1 (8-9)

Lab Sample ID: 500-220837-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	160	J B	310	100	ug/Kg	50	✳	8260B	Total/NA
Arsenic	1.9		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	22		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.096	J	0.21	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	8.0		1.0	0.51	mg/Kg	1	✳	6010C	Total/NA
Lead	5.5		0.51	0.24	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.025		0.018	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-1 (9-10)

Lab Sample ID: 500-220837-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	19		17	12	ug/Kg	50	✳	8260B	Total/NA
Methylene Chloride	180	J B	340	110	ug/Kg	50	✳	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (9-10) (Continued)

Lab Sample ID: 500-220837-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	83		34	15	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	6.0	J	38	5.9	ug/Kg	1	✳	8270D	Total/NA
Arsenic	1.5		1.1	0.37	mg/Kg	1	✳	6010C	Total/NA
Barium	5.8		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.097	J	0.22	0.039	mg/Kg	1	✳	6010C	Total/NA
Chromium	4.0		1.1	0.53	mg/Kg	1	✳	6010C	Total/NA
Lead	2.1		0.54	0.25	mg/Kg	1	✳	6010C	Total/NA
Silver	0.20	J	0.54	0.14	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.013	J	0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-2 (2-4)

Lab Sample ID: 500-220837-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	220	J B	420	140	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	39	J B	84	28	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	54		42	18	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	140	J	350	64	ug/Kg	10	✳	8270D	Total/NA
Acenaphthylene	62	J	350	47	ug/Kg	10	✳	8270D	Total/NA
Anthracene	1000		350	60	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene	3000		350	48	ug/Kg	10	✳	8270D	Total/NA
Benzo[a]pyrene	3500		350	69	ug/Kg	10	✳	8270D	Total/NA
Benzo[b]fluoranthene	4700		350	77	ug/Kg	10	✳	8270D	Total/NA
Benzo[g,h,i]perylene	1400		350	120	ug/Kg	10	✳	8270D	Total/NA
Benzo[k]fluoranthene	2300		350	110	ug/Kg	10	✳	8270D	Total/NA
Chrysene	3400		350	97	ug/Kg	10	✳	8270D	Total/NA
Dibenz(a,h)anthracene	410		350	69	ug/Kg	10	✳	8270D	Total/NA
Fluoranthene	6200		350	66	ug/Kg	10	✳	8270D	Total/NA
Fluorene	130	J	350	50	ug/Kg	10	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1500		350	93	ug/Kg	10	✳	8270D	Total/NA
Phenanthrene	2400		350	50	ug/Kg	10	✳	8270D	Total/NA
Pyrene	5900		350	71	ug/Kg	10	✳	8270D	Total/NA
1-Methylnaphthalene	120	J	720	87	ug/Kg	10	✳	8270D	Total/NA
2-Methylnaphthalene	100	J	720	66	ug/Kg	10	✳	8270D	Total/NA
Arsenic	3.1		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	78		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.21		0.20	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	11		1.0	0.50	mg/Kg	1	✳	6010C	Total/NA
Lead	55		0.51	0.24	mg/Kg	1	✳	6010C	Total/NA
Silver	0.21	J	0.51	0.13	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.12		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-2 (7-9)

Lab Sample ID: 500-220837-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	100		69	23	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	30	J	39	7.0	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	140		39	5.2	ug/Kg	1	✳	8270D	Total/NA
Anthracene	300		39	6.5	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	980		39	5.3	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	900		39	7.6	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1200		39	8.5	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	270		39	13	ug/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (7-9) (Continued)

Lab Sample ID: 500-220837-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	480		39	12	ug/Kg	1	✳	8270D	Total/NA
Chrysene	890		39	11	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	90		39	7.6	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	1000		39	7.3	ug/Kg	1	✳	8270D	Total/NA
Fluorene	57		39	5.5	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	350		39	10	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	46		39	6.0	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	850		39	5.5	ug/Kg	1	✳	8270D	Total/NA
Pyrene	1200		39	7.8	ug/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	21	J	79	9.6	ug/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	34	J	79	7.2	ug/Kg	1	✳	8270D	Total/NA
Arsenic	4.1		2.3	0.77	mg/Kg	2	✳	6010C	Total/NA
Barium	81		1.1	0.13	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.8		1.1	0.56	mg/Kg	1	✳	6010C	Total/NA
Lead	39		1.1	0.52	mg/Kg	2	✳	6010C	Total/NA
Selenium	1.7		1.1	0.66	mg/Kg	1	✳	6010C	Total/NA
Silver	0.17	J	0.56	0.15	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.081		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-220837-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	110		76	25	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	1800		710	130	ug/Kg	20	✳	8270D	Total/NA
Acenaphthylene	150	J	710	94	ug/Kg	20	✳	8270D	Total/NA
Anthracene	7900		710	120	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]anthracene	15000		710	96	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]pyrene	15000		710	140	ug/Kg	20	✳	8270D	Total/NA
Benzo[b]fluoranthene	20000		710	150	ug/Kg	20	✳	8270D	Total/NA
Benzo[g,h,i]perylene	3900		710	230	ug/Kg	20	✳	8270D	Total/NA
Benzo[k]fluoranthene	8200		710	210	ug/Kg	20	✳	8270D	Total/NA
Chrysene	15000		710	190	ug/Kg	20	✳	8270D	Total/NA
Dibenz(a,h)anthracene	1100		710	140	ug/Kg	20	✳	8270D	Total/NA
Fluoranthene	30000		710	130	ug/Kg	20	✳	8270D	Total/NA
Fluorene	2000		710	100	ug/Kg	20	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4100		710	180	ug/Kg	20	✳	8270D	Total/NA
Naphthalene	290	J	710	110	ug/Kg	20	✳	8270D	Total/NA
Phenanthrene	18000		710	99	ug/Kg	20	✳	8270D	Total/NA
Pyrene	34000		710	140	ug/Kg	20	✳	8270D	Total/NA
1-Methylnaphthalene	310	J	1400	170	ug/Kg	20	✳	8270D	Total/NA
2-Methylnaphthalene	280	J	1400	130	ug/Kg	20	✳	8270D	Total/NA
Arsenic	1.6		1.0	0.34	mg/Kg	1	✳	6010C	Total/NA
Barium	51		2.0	0.23	mg/Kg	2	✳	6010C	Total/NA
Cadmium	0.12	J	0.20	0.036	mg/Kg	1	✳	6010C	Total/NA
Chromium	7.7		1.0	0.50	mg/Kg	1	✳	6010C	Total/NA
Lead	11		0.50	0.23	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.059		0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-4 (9-10)

Lab Sample ID: 500-220837-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	140	J B	320	100	ug/Kg	50	✳	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (9-10) (Continued)

Lab Sample ID: 500-220837-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	9.2	J	37	7.0	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	5.3	J	37	5.3	ug/Kg	1	✳	8270D	Total/NA
Pyrene	9.9	J	37	7.5	ug/Kg	1	✳	8270D	Total/NA
Arsenic	2.6		1.1	0.37	mg/Kg	1	✳	6010C	Total/NA
Barium	37		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.10	J	0.21	0.038	mg/Kg	1	✳	6010C	Total/NA
Chromium	14		1.1	0.53	mg/Kg	1	✳	6010C	Total/NA
Lead	6.9		0.53	0.25	mg/Kg	1	✳	6010C	Total/NA
Silver	0.17	J	0.53	0.14	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.022		0.018	0.0059	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-4 (16-17)

Lab Sample ID: 500-220837-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	120	J B	290	95	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	28	J	29	13	ug/Kg	50	✳	8260B	Total/NA
Arsenic	2.8		1.1	0.36	mg/Kg	1	✳	6010C	Total/NA
Barium	23		1.1	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.11	J	0.21	0.038	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.9		1.1	0.52	mg/Kg	1	✳	6010C	Total/NA
Lead	8.7		0.53	0.24	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.023		0.018	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-6 (0-5)

Lab Sample ID: 500-220837-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	280		58	19	ug/Kg	50	✳	8260B	Total/NA
Acenaphthene	7500		710	130	ug/Kg	20	✳	8270D	Total/NA
Acenaphthylene	190	J	710	94	ug/Kg	20	✳	8270D	Total/NA
Anthracene	30000		710	120	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]anthracene	32000		710	96	ug/Kg	20	✳	8270D	Total/NA
Benzo[a]pyrene	26000		710	140	ug/Kg	20	✳	8270D	Total/NA
Benzo[b]fluoranthene	33000		710	150	ug/Kg	20	✳	8270D	Total/NA
Benzo[g,h,i]perylene	7500		710	230	ug/Kg	20	✳	8270D	Total/NA
Benzo[k]fluoranthene	15000		710	210	ug/Kg	20	✳	8270D	Total/NA
Chrysene	30000		710	190	ug/Kg	20	✳	8270D	Total/NA
Dibenz(a,h)anthracene	2900		710	140	ug/Kg	20	✳	8270D	Total/NA
Fluorene	12000		710	100	ug/Kg	20	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	9600		710	180	ug/Kg	20	✳	8270D	Total/NA
Naphthalene	1600		710	110	ug/Kg	20	✳	8270D	Total/NA
1-Methylnaphthalene	1600		1400	170	ug/Kg	20	✳	8270D	Total/NA
2-Methylnaphthalene	2000		1400	130	ug/Kg	20	✳	8270D	Total/NA
Fluoranthene - DL	80000		7100	1300	ug/Kg	200	✳	8270D	Total/NA
Phenanthrene - DL	75000		7100	990	ug/Kg	200	✳	8270D	Total/NA
Pyrene - DL	62000		7100	1400	ug/Kg	200	✳	8270D	Total/NA
Arsenic	2.3		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	32		2.1	0.24	mg/Kg	2	✳	6010C	Total/NA
Cadmium	0.11	J	0.21	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.5		1.0	0.51	mg/Kg	1	✳	6010C	Total/NA
Lead	7.6		0.52	0.24	mg/Kg	1	✳	6010C	Total/NA
Silver	0.17	J	0.52	0.13	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.033		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (11-12)

Lab Sample ID: 500-220837-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	130	J B	310	100	ug/Kg	50	✳	8260B	Total/NA
Naphthalene	26	J B	62	21	ug/Kg	50	✳	8260B	Total/NA
Anthracene	7.8	J	36	6.1	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	16	J	36	4.9	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	12	J	36	7.0	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	16	J	36	7.8	ug/Kg	1	✳	8270D	Total/NA
Chrysene	16	J	36	9.9	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	27	J	36	6.7	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	17	J	36	5.1	ug/Kg	1	✳	8270D	Total/NA
Pyrene	27	J	36	7.2	ug/Kg	1	✳	8270D	Total/NA
Arsenic	2.3		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	24		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.15	J	0.21	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	9.6		1.0	0.51	mg/Kg	1	✳	6010C	Total/NA
Lead	6.8		0.52	0.24	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.019	B	0.017	0.0058	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-6 (22-23)

Lab Sample ID: 500-220837-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	6.6	J	38	5.4	ug/Kg	1	✳	8270D	Total/NA
Pyrene	11	J	38	7.7	ug/Kg	1	✳	8270D	Total/NA
Arsenic	2.0		1.1	0.38	mg/Kg	1	✳	6010C	Total/NA
Barium	12		1.1	0.13	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.25		0.22	0.040	mg/Kg	1	✳	6010C	Total/NA
Chromium	4.5		1.1	0.55	mg/Kg	1	✳	6010C	Total/NA
Lead	4.2		0.55	0.26	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.015	J B	0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-8 (2-4)

Lab Sample ID: 500-220837-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	140	J B	360	120	ug/Kg	50	✳	8260B	Total/NA
Benzo[a]anthracene	8.9	J	40	5.4	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	11	J	40	8.7	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	16	J	40	7.5	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	9.4	J	40	5.6	ug/Kg	1	✳	8270D	Total/NA
Pyrene	15	J	40	8.0	ug/Kg	1	✳	8270D	Total/NA
Arsenic	4.6		1.2	0.41	mg/Kg	1	✳	6010C	Total/NA
Barium	130		1.2	0.14	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.087	J	0.24	0.043	mg/Kg	1	✳	6010C	Total/NA
Chromium	19		1.2	0.59	mg/Kg	1	✳	6010C	Total/NA
Lead	89		0.60	0.28	mg/Kg	1	✳	6010C	Total/NA
Silver	0.29	J	0.60	0.15	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.13	B	0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: GP-8 (6-7)

Lab Sample ID: 500-220837-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	120	J B	320	100	ug/Kg	50	✳	8260B	Total/NA
Arsenic	2.9		1.0	0.35	mg/Kg	1	✳	6010C	Total/NA
Barium	20		1.0	0.12	mg/Kg	1	✳	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (6-7) (Continued)

Lab Sample ID: 500-220837-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.070	J	0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.5		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	5.6		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.037	B	0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-8 (22-23)

Lab Sample ID: 500-220837-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	100	J B	300	98	ug/Kg	50	☼	8260B	Total/NA
Chrysene	12	J	36	9.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	36	5.0	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	11	J	73	6.7	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.7		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	19		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.13	J	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.1		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	6.5		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA
Silver	0.14	J	0.53	0.14	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.018	B	0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Protocol B

Lab Sample ID: 500-220837-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.015	J	0.017	0.0083	mg/Kg	1	☼	8082A	Total/NA
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010D	TCLP
Barium	0.38	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010D	TCLP
Lead	0.012	J	0.050	0.0075	mg/L	1		6010D	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.061	J	0.10	0.020	mg/L	1		6010D	TCLP
pH	8.6	HF	0.2	0.2	SU	1		9045D	Total/NA
Free Liquid	pass				No Unit	1		9095B	Total/NA
Flashpoint	>200		99.0	99.0	Degrees F	1		D92	Total/NA
Specific Gravity	2.2986				NONE	1		SM 2710F	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-220837-27

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010C	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
9045D	pH	SW846	EET CHI
9066	Phenolics, Total Recoverable	SW846	EET CHI
9095B	Paint Filter	SW846	EET CHI
9251	Chlorine, Total	SW846	EET SAV
D92	Flashpoint	ASTM	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
SM 2710F	Specific Gravity, Density	SM	EET CHI
1311	TCLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
5050	Bomb Preparation Method for Solid Waste	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI
Distill/Phenol	Distillation, Phenolics	None	EET CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-220837-1	GP-7 (2-4)	Solid	08/11/22 09:15	08/12/22 17:45
500-220837-2	GP-7 (10-11)	Solid	08/11/22 09:35	08/12/22 17:45
500-220837-3	GP-7 (16-17)	Solid	08/11/22 09:45	08/12/22 17:45
500-220837-4	GP-7 (20-21)	Solid	08/11/22 14:50	08/12/22 17:45
500-220837-5	GP-5 (2-4)	Solid	08/11/22 10:30	08/12/22 17:45
500-220837-6	GP-5 (11-12)	Solid	08/11/22 10:35	08/12/22 17:45
500-220837-7	GP-5 (16-17)	Solid	08/11/22 10:40	08/12/22 17:45
500-220837-8	GP-3 (2-4)	Solid	08/11/22 11:15	08/12/22 17:45
500-220837-9	GP-3 (12-13)	Solid	08/11/22 11:25	08/12/22 17:45
500-220837-10	GP-3 (16-17)	Solid	08/11/22 11:20	08/12/22 17:45
500-220837-11	GP-3 (24-25)	Solid	08/11/22 11:30	08/12/22 17:45
500-220837-12	GP-1 (2-4)	Solid	08/11/22 12:00	08/12/22 17:45
500-220837-13	GP-1 (8-9)	Solid	08/11/22 12:05	08/12/22 17:45
500-220837-14	GP-1 (9-10)	Solid	08/11/22 12:10	08/12/22 17:45
500-220837-15	GP-2 (2-4)	Solid	08/11/22 12:30	08/12/22 17:45
500-220837-16	GP-2 (7-9)	Solid	08/11/22 12:35	08/12/22 17:45
500-220837-17	GP-4 (2-4)	Solid	08/11/22 13:20	08/12/22 17:45
500-220837-18	GP-4 (9-10)	Solid	08/11/22 13:25	08/12/22 17:45
500-220837-19	GP-4 (16-17)	Solid	08/11/22 13:30	08/12/22 17:45
500-220837-20	GP-6 (0-5)	Solid	08/11/22 13:35	08/12/22 17:45
500-220837-21	GP-6 (11-12)	Solid	08/11/22 14:00	08/12/22 17:45
500-220837-22	GP-6 (22-23)	Solid	08/11/22 14:05	08/12/22 17:45
500-220837-23	GP-8 (2-4)	Solid	08/11/22 14:30	08/12/22 17:45
500-220837-24	GP-8 (6-7)	Solid	08/11/22 14:35	08/12/22 17:45
500-220837-25	GP-8 (22-23)	Solid	08/11/22 14:40	08/12/22 17:45
500-220837-26	Protocol B	Solid	08/11/22 15:30	08/12/22 17:45
500-220837-27	Trip Blank	Solid	08/11/22 00:00	08/12/22 17:45

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (2-4)

Lab Sample ID: 500-220837-1

Date Collected: 08/11/22 09:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		17	10	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Bromobenzene	<25		70	25	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Bromochloromethane	<30		70	30	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Bromodichloromethane	<26		70	26	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Bromoform	<34		70	34	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Bromomethane	<56		210	56	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Carbon tetrachloride	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Chlorobenzene	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Chloroethane	<35		70	35	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Chloroform	<26		140	26	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Chloromethane	<22		70	22	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
2-Chlorotoluene	<22		70	22	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
4-Chlorotoluene	<24		70	24	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
cis-1,2-Dichloroethene	<29		70	29	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Dibromochloromethane	<34		70	34	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,2-Dibromoethane (EDB)	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Dibromomethane	<19		70	19	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,1-Dichloroethane	<29		70	29	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,2-Dichloroethane	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,1-Dichloroethene	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,2-Dichloropropane	<30		70	30	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,3-Dichloropropane	<25		70	25	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
2,2-Dichloropropane	<31		70	31	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,1-Dichloropropene	<21		70	21	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Ethylbenzene	<13		17	13	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Hexachlorobutadiene	<31		70	31	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Isopropylbenzene	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Isopropyl ether	<19		70	19	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Methylene Chloride	180	J B	350	110	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Naphthalene	42	J B	70	23	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
n-Butylbenzene	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
N-Propylbenzene	<29		70	29	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
p-Isopropyltoluene	<25		70	25	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
sec-Butylbenzene	<28		70	28	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Styrene	<27		70	27	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
tert-Butylbenzene	<28		70	28	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,1,1,2-Tetrachloroethane	<32		70	32	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Tetrachloroethene	<26		70	26	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
Toluene	<10		17	10	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
trans-1,2-Dichloroethene	<24		70	24	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	✳	08/11/22 09:15	08/24/22 17:29	50

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (2-4)

Lab Sample ID: 500-220837-1

Date Collected: 08/11/22 09:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,1,1-Trichloroethane	<27		70	27	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
Trichloroethene	<11		35	11	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
Trichlorofluoromethane	<30		70	30	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
1,3,5-Trimethylbenzene	<27		70	27	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
Vinyl chloride	<18		70	18	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50
Xylenes, Total	24	J	35	15	ug/Kg	✱	08/11/22 09:15	08/24/22 17:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124	08/11/22 09:15	08/24/22 17:29	50
Dibromofluoromethane (Surr)	91		75 - 120	08/11/22 09:15	08/24/22 17:29	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	08/11/22 09:15	08/24/22 17:29	50
Toluene-d8 (Surr)	102		75 - 120	08/11/22 09:15	08/24/22 17:29	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13	J	39	7.1	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Acenaphthylene	5.3	J	39	5.2	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Anthracene	35	J	39	6.6	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Benzo[a]anthracene	91		39	5.3	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Benzo[a]pyrene	86		39	7.6	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Benzo[b]fluoranthene	81		39	8.5	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Benzo[g,h,i]perylene	54		39	13	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Benzo[k]fluoranthene	44		39	12	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Chrysene	86		39	11	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Dibenz(a,h)anthracene	13	J	39	7.6	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Fluoranthene	190		39	7.3	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Fluorene	12	J	39	5.6	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Indeno[1,2,3-cd]pyrene	49		39	10	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Naphthalene	17	J	39	6.1	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Phenanthrene	160		39	5.5	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
Pyrene	250		39	7.8	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
1-Methylnaphthalene	14	J	80	9.6	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1
2-Methylnaphthalene	15	J	80	7.3	ug/Kg	✱	08/25/22 07:09	08/29/22 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	44		37 - 147	08/25/22 07:09	08/29/22 16:46	1
Terphenyl-d14 (Surr)	91		42 - 157	08/25/22 07:09	08/29/22 16:46	1
2-Fluorobiphenyl (Surr)	58		43 - 145	08/25/22 07:09	08/29/22 16:46	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.011		0.029	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 17:20	1
PCB-1221	<0.011		0.029	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 17:20	1
PCB-1232	<0.0078		0.029	0.0078	mg/Kg	✱	08/26/22 09:04	08/29/22 17:20	1
PCB-1242	<0.011		0.029	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 17:20	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (2-4)

Lab Sample ID: 500-220837-1

Date Collected: 08/11/22 09:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.014		0.029	0.014	mg/Kg	☼	08/26/22 09:04	08/29/22 17:20	1
PCB-1254	<0.0098		0.029	0.0098	mg/Kg	☼	08/26/22 09:04	08/29/22 17:20	1
PCB-1260	<0.011		0.029	0.011	mg/Kg	☼	08/26/22 09:04	08/29/22 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		49 - 129				08/26/22 09:04	08/29/22 17:20	1
DCB Decachlorobiphenyl	82		37 - 121				08/26/22 09:04	08/29/22 17:20	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		1.2	0.40	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Barium	93		1.2	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Cadmium	0.21	J	0.23	0.042	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Chromium	19		1.2	0.58	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Lead	69		0.58	0.27	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Selenium	<0.69		1.2	0.69	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1
Silver	0.35	J	0.58	0.15	mg/Kg	☼	08/23/22 14:41	08/24/22 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.019	0.0063	mg/Kg	☼	08/23/22 14:50	08/24/22 09:16	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (10-11)

Lab Sample ID: 500-220837-2

Date Collected: 08/11/22 09:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.3		16	9.3	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Bromobenzene	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Bromochloromethane	<27		64	27	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Bromodichloromethane	<24		64	24	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Bromoform	<31		64	31	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Bromomethane	<51		190	51	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Carbon tetrachloride	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Chlorobenzene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Chloroethane	<32		64	32	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Chloroform	<24		130	24	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Chloromethane	<20		64	20	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
2-Chlorotoluene	<20		64	20	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
4-Chlorotoluene	<22		64	22	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Dibromochloromethane	<31		64	31	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2-Dibromoethane (EDB)	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Dibromomethane	<17		64	17	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1-Dichloroethane	<26		64	26	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2-Dichloroethane	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1-Dichloroethene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2-Dichloropropane	<27		64	27	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,3-Dichloropropane	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
2,2-Dichloropropane	<28		64	28	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1-Dichloropropene	<19		64	19	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Ethylbenzene	<12		16	12	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Hexachlorobutadiene	<29		64	29	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Isopropylbenzene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Isopropyl ether	<18		64	18	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Methylene Chloride	160	J B	320	100	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Naphthalene	<21		64	21	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
n-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
N-Propylbenzene	<26		64	26	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
p-Isopropyltoluene	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
sec-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Styrene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
tert-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Tetrachloroethene	<24		64	24	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Toluene	<9.4		16	9.4	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (10-11)

Lab Sample ID: 500-220837-2

Date Collected: 08/11/22 09:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Trichloroethene	<10		32	10	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Trichlorofluoromethane	<27		64	27	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Vinyl chloride	<17		64	17	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Xylenes, Total	<14		32	14	ug/Kg	✳	08/11/22 09:35	08/24/22 17:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124				08/11/22 09:35	08/24/22 17:52	50
Dibromofluoromethane (Surr)	93		75 - 120				08/11/22 09:35	08/24/22 17:52	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126				08/11/22 09:35	08/24/22 17:52	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 09:35	08/24/22 17:52	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.8		38	6.8	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Anthracene	<6.3		38	6.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Benzo[a]pyrene	<7.3		38	7.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Benzo[b]fluoranthene	<8.2		38	8.2	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Chrysene	<10		38	10	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Dibenz(a,h)anthracene	<7.3		38	7.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Fluoranthene	<7.0		38	7.0	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Fluorene	<5.3		38	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Indeno[1,2,3-cd]pyrene	<9.8		38	9.8	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Naphthalene	<5.8		38	5.8	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Phenanthrene	<5.3		38	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Pyrene	<7.5		38	7.5	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
1-Methylnaphthalene	<9.3		77	9.3	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
2-Methylnaphthalene	<7.0		77	7.0	ug/Kg	✳	08/25/22 07:09	08/29/22 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	41		37 - 147				08/25/22 07:09	08/29/22 17:51	1
Terphenyl-d14 (Surr)	94		42 - 157				08/25/22 07:09	08/29/22 17:51	1
2-Fluorobiphenyl (Surr)	82		43 - 145				08/25/22 07:09	08/29/22 17:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 17:35	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 17:35	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✳	08/26/22 09:04	08/29/22 17:35	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 17:35	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (10-11)

Lab Sample ID: 500-220837-2

Date Collected: 08/11/22 09:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	☼	08/26/22 09:04	08/29/22 17:35	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	☼	08/26/22 09:04	08/29/22 17:35	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	☼	08/26/22 09:04	08/29/22 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	105		49 - 129				08/26/22 09:04	08/29/22 17:35	1
DCB Decachlorobiphenyl	98		37 - 121				08/26/22 09:04	08/29/22 17:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.38	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Barium	23		1.1	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Cadmium	0.11	J	0.22	0.040	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Chromium	10		1.1	0.54	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Lead	7.8		0.55	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 11:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 09:23	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (16-17)

Lab Sample ID: 500-220837-3

Date Collected: 08/11/22 09:45

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.5		16	9.5	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Bromobenzene	<23		65	23	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Bromochloromethane	<28		65	28	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Bromodichloromethane	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Bromoform	<32		65	32	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Bromomethane	<52		200	52	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Carbon tetrachloride	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Chlorobenzene	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Chloroethane	<33		65	33	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Chloroform	<24		130	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Chloromethane	<21		65	21	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
2-Chlorotoluene	<21		65	21	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
4-Chlorotoluene	<23		65	23	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
cis-1,2-Dichloroethene	<27		65	27	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Dibromochloromethane	<32		65	32	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,2-Dibromoethane (EDB)	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Dibromomethane	<18		65	18	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,1-Dichloroethane	<27		65	27	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,2-Dichloroethane	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,1-Dichloroethene	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,2-Dichloropropane	<28		65	28	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,3-Dichloropropane	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
2,2-Dichloropropane	<29		65	29	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,1-Dichloropropene	<19		65	19	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Ethylbenzene	<12		16	12	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Hexachlorobutadiene	<29		65	29	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Isopropylbenzene	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Isopropyl ether	<18		65	18	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Methylene Chloride	170	J B	330	110	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Naphthalene	<22		65	22	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
n-Butylbenzene	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
N-Propylbenzene	<27		65	27	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
p-Isopropyltoluene	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
sec-Butylbenzene	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Styrene	<25		65	25	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
tert-Butylbenzene	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Tetrachloroethene	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
Toluene	<9.6		16	9.6	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	✳	08/11/22 09:45	08/24/22 18:15	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (16-17)

Lab Sample ID: 500-220837-3

Date Collected: 08/11/22 09:45

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
Trichloroethene	<11		33	11	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
Trichlorofluoromethane	<28		65	28	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
Vinyl chloride	<17		65	17	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50
Xylenes, Total	21	J	33	14	ug/Kg	✱	08/11/22 09:45	08/24/22 18:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	08/11/22 09:45	08/24/22 18:15	50
Dibromofluoromethane (Surr)	93		75 - 120	08/11/22 09:45	08/24/22 18:15	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126	08/11/22 09:45	08/24/22 18:15	50
Toluene-d8 (Surr)	100		75 - 120	08/11/22 09:45	08/24/22 18:15	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.9		38	6.9	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Anthracene	<6.4		38	6.4	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Benzo[b]fluoranthene	<8.2		38	8.2	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Chrysene	<10		38	10	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Fluoranthene	<7.1		38	7.1	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Fluorene	<5.4		38	5.4	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Indeno[1,2,3-cd]pyrene	<9.9		38	9.9	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Naphthalene	<5.9		38	5.9	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Phenanthrene	<5.3		38	5.3	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
Pyrene	<7.6		38	7.6	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
1-Methylnaphthalene	<9.3		77	9.3	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1
2-Methylnaphthalene	<7.0		77	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	98		37 - 147	08/25/22 07:09	08/29/22 18:12	1
Terphenyl-d14 (Surr)	108		42 - 157	08/25/22 07:09	08/29/22 18:12	1
2-Fluorobiphenyl (Surr)	104		43 - 145	08/25/22 07:09	08/29/22 18:12	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 09:04	08/29/22 17:50	1
PCB-1221	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 09:04	08/29/22 17:50	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✱	08/26/22 09:04	08/29/22 17:50	1
PCB-1242	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 09:04	08/29/22 17:50	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (16-17)

Lab Sample ID: 500-220837-3

Date Collected: 08/11/22 09:45

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0089		0.019	0.0089	mg/Kg	☼	08/26/22 09:04	08/29/22 17:50	1
PCB-1254	<0.0063		0.019	0.0063	mg/Kg	☼	08/26/22 09:04	08/29/22 17:50	1
PCB-1260	<0.0070		0.019	0.0070	mg/Kg	☼	08/26/22 09:04	08/29/22 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		49 - 129				08/26/22 09:04	08/29/22 17:50	1
DCB Decachlorobiphenyl	97		37 - 121				08/26/22 09:04	08/29/22 17:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.1	0.36	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Barium	23		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Cadmium	0.12	J	0.21	0.038	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Chromium	9.7		1.1	0.53	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Lead	5.2		0.53	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1
Silver	0.16	J	0.53	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 11:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 09:25	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (20-21)

Lab Sample ID: 500-220837-4

Date Collected: 08/11/22 14:50

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7		17	9.7	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Bromobenzene	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Bromochloromethane	<28		66	28	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Bromodichloromethane	<25		66	25	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Bromoform	<32		66	32	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Bromomethane	<53		200	53	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Carbon tetrachloride	<25		66	25	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Chlorobenzene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Chloroethane	<33		66	33	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Chloroform	<24		130	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Chloromethane	<21		66	21	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
2-Chlorotoluene	<21		66	21	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
4-Chlorotoluene	<23		66	23	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Dibromochloromethane	<32		66	32	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,2-Dibromoethane (EDB)	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Dibromomethane	<18		66	18	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,1-Dichloroethane	<27		66	27	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,2-Dichloroethane	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,1-Dichloroethene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,2-Dichloropropane	<28		66	28	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,3-Dichloropropane	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
2,2-Dichloropropane	<29		66	29	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,1-Dichloropropene	<20		66	20	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Ethylbenzene	<12		17	12	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Hexachlorobutadiene	<29		66	29	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Isopropylbenzene	<25		66	25	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Isopropyl ether	<18		66	18	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Methylene Chloride	170	J B	330	110	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Naphthalene	<22		66	22	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
n-Butylbenzene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
N-Propylbenzene	<27		66	27	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
p-Isopropyltoluene	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
sec-Butylbenzene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Styrene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
tert-Butylbenzene	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Tetrachloroethene	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
Toluene	<9.7		17	9.7	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	✱	08/11/22 14:50	08/24/22 18:38	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (20-21)

Lab Sample ID: 500-220837-4

Date Collected: 08/11/22 14:50

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
Trichloroethene	<11		33	11	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
Trichlorofluoromethane	<28		66	28	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
Vinyl chloride	<17		66	17	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
Xylenes, Total	<15		33	15	ug/Kg	✳	08/11/22 14:50	08/24/22 18:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124				08/11/22 14:50	08/24/22 18:38	50
Dibromofluoromethane (Surr)	92		75 - 120				08/11/22 14:50	08/24/22 18:38	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126				08/11/22 14:50	08/24/22 18:38	50
Toluene-d8 (Surr)	103		75 - 120				08/11/22 14:50	08/24/22 18:38	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.8		38	6.8	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Anthracene	<6.3		38	6.3	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Benzo[b]fluoranthene	<8.2		38	8.2	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Chrysene	<10		38	10	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Dibenz(a,h)anthracene	<7.3		38	7.3	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Fluoranthene	<7.0		38	7.0	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Fluorene	<5.3		38	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Indeno[1,2,3-cd]pyrene	<9.8		38	9.8	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Naphthalene	7.1 J		38	5.8	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Phenanthrene	<5.3		38	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Pyrene	<7.5		38	7.5	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
1-Methylnaphthalene	<9.3		77	9.3	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
2-Methylnaphthalene	<7.0		77	7.0	ug/Kg	✳	08/25/22 07:09	08/29/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		37 - 147				08/25/22 07:09	08/29/22 18:33	1
Terphenyl-d14 (Surr)	99		42 - 157				08/25/22 07:09	08/29/22 18:33	1
2-Fluorobiphenyl (Surr)	96		43 - 145				08/25/22 07:09	08/29/22 18:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 18:04	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 18:04	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✳	08/26/22 09:04	08/29/22 18:04	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	✳	08/26/22 09:04	08/29/22 18:04	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (20-21)

Lab Sample ID: 500-220837-4

Date Collected: 08/11/22 14:50

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	☼	08/26/22 09:04	08/29/22 18:04	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	☼	08/26/22 09:04	08/29/22 18:04	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	☼	08/26/22 09:04	08/29/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		49 - 129				08/26/22 09:04	08/29/22 18:04	1
DCB Decachlorobiphenyl	96		37 - 121				08/26/22 09:04	08/29/22 18:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.37	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Barium	24		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Cadmium	0.083	J	0.22	0.039	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Chromium	9.8		1.1	0.54	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Lead	5.7		0.55	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1
Silver	0.16	J	0.55	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0064	mg/Kg	☼	08/23/22 14:50	08/24/22 09:26	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-220837-5

Date Collected: 08/11/22 10:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Bromobenzene	<21		60	21	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Bromochloromethane	<26		60	26	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Bromodichloromethane	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Bromoform	<29		60	29	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Bromomethane	<48		180	48	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Carbon tetrachloride	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Chlorobenzene	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Chloroethane	<30		60	30	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Chloroform	<22		120	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Chloromethane	<19		60	19	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
2-Chlorotoluene	<19		60	19	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
4-Chlorotoluene	<21		60	21	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Dibromochloromethane	<29		60	29	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2-Dibromoethane (EDB)	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Dibromomethane	<16		60	16	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1-Dichloroethane	<25		60	25	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2-Dichloroethane	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1-Dichloroethene	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2-Dichloropropane	<26		60	26	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,3-Dichloropropane	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
2,2-Dichloropropane	<27		60	27	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1-Dichloropropene	<18		60	18	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Ethylbenzene	11	J	15	11	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Hexachlorobutadiene	<27		60	27	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Isopropylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Isopropyl ether	<17		60	17	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Methylene Chloride	<98		300	98	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Naphthalene	110	B	60	20	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
n-Butylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
N-Propylbenzene	<25		60	25	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
p-Isopropyltoluene	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
sec-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Styrene	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
tert-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Tetrachloroethene	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Toluene	45		15	8.9	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-220837-5

Date Collected: 08/11/22 10:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Trichloroethene	<9.9		30	9.9	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Trichlorofluoromethane	<26		60	26	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,2,4-Trimethylbenzene	41	J	60	22	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Vinyl chloride	<16		60	16	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Xylenes, Total	140		30	13	ug/Kg	✱	08/11/22 10:30	08/23/22 16:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124				08/11/22 10:30	08/23/22 16:52	50
Dibromofluoromethane (Surr)	88		75 - 120				08/11/22 10:30	08/23/22 16:52	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126				08/11/22 10:30	08/23/22 16:52	50
Toluene-d8 (Surr)	101		75 - 120				08/11/22 10:30	08/23/22 16:52	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100		710	130	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Acenaphthylene	<94		710	94	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Anthracene	3300		710	120	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Benzo[a]anthracene	9000		710	96	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Benzo[a]pyrene	11000		710	140	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Benzo[b]fluoranthene	13000		710	150	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Benzo[g,h,i]perylene	4300		710	230	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Benzo[k]fluoranthene	5700		710	210	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Chrysene	10000		710	190	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Dibenz(a,h)anthracene	980		710	140	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Fluoranthene	22000		710	130	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Fluorene	630	J	710	100	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Indeno[1,2,3-cd]pyrene	4100		710	190	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Naphthalene	<110		710	110	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Phenanthrene	8200		710	100	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Pyrene	23000		710	140	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
1-Methylnaphthalene	<170		1400	170	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
2-Methylnaphthalene	<130		1400	130	ug/Kg	✱	08/25/22 07:09	08/29/22 18:55	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	D	37 - 147				08/25/22 07:09	08/29/22 18:55	20
Terphenyl-d14 (Surr)	0	D	42 - 157				08/25/22 07:09	08/29/22 18:55	20
2-Fluorobiphenyl (Surr)	0	D	43 - 145				08/25/22 07:09	08/29/22 18:55	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0070		0.018	0.0070	mg/Kg	✱	08/26/22 09:04	08/29/22 18:19	1
PCB-1221	<0.0070		0.018	0.0070	mg/Kg	✱	08/26/22 09:04	08/29/22 18:19	1
PCB-1232	<0.0048		0.018	0.0048	mg/Kg	✱	08/26/22 09:04	08/29/22 18:19	1
PCB-1242	<0.0069		0.018	0.0069	mg/Kg	✱	08/26/22 09:04	08/29/22 18:19	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-220837-5

Date Collected: 08/11/22 10:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	0.050		0.018	0.0085	mg/Kg	☼	08/26/22 09:04	08/29/22 18:19	1
PCB-1254	<0.0060		0.018	0.0060	mg/Kg	☼	08/26/22 09:04	08/29/22 18:19	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	☼	08/26/22 09:04	08/29/22 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	104		49 - 129				08/26/22 09:04	08/29/22 18:19	1
<i>DCB Decachlorobiphenyl</i>	78		37 - 121				08/26/22 09:04	08/29/22 18:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Barium	49		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Cadmium	0.21		0.20	0.036	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Chromium	9.5		1.0	0.50	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Lead	54		0.50	0.23	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 12:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.017	0.0057	mg/Kg	☼	08/23/22 14:50	08/24/22 09:28	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (11-12)

Lab Sample ID: 500-220837-6

Date Collected: 08/11/22 10:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.1	J	15	8.8	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Bromobenzene	<21		60	21	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Bromochloromethane	<26		60	26	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Bromodichloromethane	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Bromoform	<29		60	29	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Bromomethane	<48		180	48	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Carbon tetrachloride	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Chlorobenzene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Chloroethane	<30		60	30	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Chloroform	<22		120	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Chloromethane	<19		60	19	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
2-Chlorotoluene	<19		60	19	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
4-Chlorotoluene	<21		60	21	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Dibromochloromethane	<29		60	29	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2-Dibromoethane (EDB)	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Dibromomethane	<16		60	16	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Dichlorodifluoromethane	<40		180	40	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1-Dichloroethane	<25		60	25	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2-Dichloroethane	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1-Dichloroethene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2-Dichloropropane	<26		60	26	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,3-Dichloropropane	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
2,2-Dichloropropane	<27		60	27	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1-Dichloropropene	<18		60	18	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Ethylbenzene	<11		15	11	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Hexachlorobutadiene	<27		60	27	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Isopropylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Isopropyl ether	<17		60	17	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Methylene Chloride	<98		300	98	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Naphthalene	23	J B	60	20	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
n-Butylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
N-Propylbenzene	<25		60	25	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
p-Isopropyltoluene	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
sec-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Styrene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
tert-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Tetrachloroethene	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Toluene	<8.8		15	8.8	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (11-12)

Lab Sample ID: 500-220837-6

Date Collected: 08/11/22 10:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Trichloroethene	<9.9		30	9.9	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Trichlorofluoromethane	<26		60	26	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Vinyl chloride	<16		60	16	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50
Xylenes, Total	27	J	30	13	ug/Kg	✱	08/11/22 10:35	08/23/22 17:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124	08/11/22 10:35	08/23/22 17:15	50
Dibromofluoromethane (Surr)	94		75 - 120	08/11/22 10:35	08/23/22 17:15	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126	08/11/22 10:35	08/23/22 17:15	50
Toluene-d8 (Surr)	99		75 - 120	08/11/22 10:35	08/23/22 17:15	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.5		36	6.5	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Anthracene	<6.1		36	6.1	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Benzo[b]fluoranthene	<7.9		36	7.9	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Chrysene	<9.9		36	9.9	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Fluoranthene	<6.7		36	6.7	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Fluorene	<5.1		36	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Naphthalene	<5.6		36	5.6	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Phenanthrene	<5.1		36	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
Pyrene	<7.2		36	7.2	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	✱	08/25/22 07:09	08/29/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		37 - 147	08/25/22 07:09	08/29/22 19:16	1
Terphenyl-d14 (Surr)	116		42 - 157	08/25/22 07:09	08/29/22 19:16	1
2-Fluorobiphenyl (Surr)	93		43 - 145	08/25/22 07:09	08/29/22 19:16	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0071		0.018	0.0071	mg/Kg	✱	08/26/22 09:04	08/29/22 18:34	1
PCB-1221	<0.0071		0.018	0.0071	mg/Kg	✱	08/26/22 09:04	08/29/22 18:34	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✱	08/26/22 09:04	08/29/22 18:34	1
PCB-1242	<0.0070		0.018	0.0070	mg/Kg	✱	08/26/22 09:04	08/29/22 18:34	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (11-12)

Lab Sample ID: 500-220837-6

Date Collected: 08/11/22 10:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0086		0.018	0.0086	mg/Kg	☼	08/26/22 09:04	08/29/22 18:34	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	☼	08/26/22 09:04	08/29/22 18:34	1
PCB-1260	<0.0068		0.018	0.0068	mg/Kg	☼	08/26/22 09:04	08/29/22 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		49 - 129				08/26/22 09:04	08/29/22 18:34	1
DCB Decachlorobiphenyl	71		37 - 121				08/26/22 09:04	08/29/22 18:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.0	0.36	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Barium	28		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Cadmium	0.19	J	0.21	0.038	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Chromium	16		1.0	0.52	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Lead	6.6		0.52	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Selenium	0.66	J	1.0	0.62	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1
Silver	0.22	J	0.52	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 12:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 09:30	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (16-17)

Lab Sample ID: 500-220837-7

Date Collected: 08/11/22 10:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.1		16	9.1	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Bromobenzene	<22		62	22	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Bromochloromethane	<27		62	27	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Bromodichloromethane	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Bromoform	<30		62	30	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Bromomethane	<50		190	50	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Carbon tetrachloride	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Chlorobenzene	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Chloroethane	<31		62	31	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Chloroform	<23		120	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Chloromethane	<20		62	20	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
2-Chlorotoluene	<20		62	20	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
4-Chlorotoluene	<22		62	22	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Dibromochloromethane	<30		62	30	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,2-Dibromoethane (EDB)	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Dibromomethane	<17		62	17	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,1-Dichloroethane	<26		62	26	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,2-Dichloroethane	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,1-Dichloroethene	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,2-Dichloropropane	<27		62	27	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,3-Dichloropropane	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
2,2-Dichloropropane	<28		62	28	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,1-Dichloropropene	<19		62	19	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Ethylbenzene	<11		16	11	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Hexachlorobutadiene	<28		62	28	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Isopropylbenzene	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Isopropyl ether	<17		62	17	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Methylene Chloride	<100		310	100	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Naphthalene	<21		62	21	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
n-Butylbenzene	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
N-Propylbenzene	<26		62	26	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
p-Isopropyltoluene	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
sec-Butylbenzene	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Styrene	<24		62	24	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
tert-Butylbenzene	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
1,1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Tetrachloroethene	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
Toluene	<9.2		16	9.2	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50
trans-1,3-Dichloropropene	<23		62	23	ug/Kg	✱	08/11/22 10:40	08/23/22 17:38	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (16-17)

Lab Sample ID: 500-220837-7

Date Collected: 08/11/22 10:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		62	29	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
Trichloroethene	<10		31	10	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
Trichlorofluoromethane	<27		62	27	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
Vinyl chloride	<16		62	16	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50
Xylenes, Total	28	J	31	14	ug/Kg	✳	08/11/22 10:40	08/23/22 17:38	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124	08/11/22 10:40	08/23/22 17:38	50
Dibromofluoromethane (Surr)	92		75 - 120	08/11/22 10:40	08/23/22 17:38	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	08/11/22 10:40	08/23/22 17:38	50
Toluene-d8 (Surr)	101		75 - 120	08/11/22 10:40	08/23/22 17:38	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.7		37	6.7	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Anthracene	<6.2		37	6.2	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Benzo[a]pyrene	<7.2		37	7.2	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Benzo[b]fluoranthene	<8.0		37	8.0	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Chrysene	11	J	37	10	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Fluoranthene	<6.9		37	6.9	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Fluorene	<5.2		37	5.2	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Indeno[1,2,3-cd]pyrene	<9.6		37	9.6	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Naphthalene	<5.7		37	5.7	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Phenanthrene	<5.2		37	5.2	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
Pyrene	12	J	37	7.4	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1
2-Methylnaphthalene	<6.8		75	6.8	ug/Kg	✳	08/25/22 07:09	08/29/22 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		37 - 147	08/25/22 07:09	08/29/22 19:38	1
Terphenyl-d14 (Surr)	101		42 - 157	08/25/22 07:09	08/29/22 19:38	1
2-Fluorobiphenyl (Surr)	94		43 - 145	08/25/22 07:09	08/29/22 19:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 19:19	1
PCB-1221	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 19:19	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✳	08/26/22 09:04	08/29/22 19:19	1
PCB-1242	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 19:19	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (16-17)

Lab Sample ID: 500-220837-7

Date Collected: 08/11/22 10:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0086		0.018	0.0086	mg/Kg	☼	08/26/22 09:04	08/29/22 19:19	1
PCB-1254	<0.0062		0.018	0.0062	mg/Kg	☼	08/26/22 09:04	08/29/22 19:19	1
PCB-1260	<0.0069		0.018	0.0069	mg/Kg	☼	08/26/22 09:04	08/29/22 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		49 - 129				08/26/22 09:04	08/29/22 19:19	1
DCB Decachlorobiphenyl	94		37 - 121				08/26/22 09:04	08/29/22 19:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Barium	49		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Cadmium	0.056	J	0.21	0.037	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Chromium	16		1.0	0.51	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Lead	7.0		0.52	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1
Silver	0.16	J	0.52	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 12:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0057	mg/Kg	☼	08/23/22 14:50	08/24/22 09:32	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-220837-8

Date Collected: 08/11/22 11:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	64		18	10	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Bromobenzene	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Bromochloromethane	<30		70	30	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Bromodichloromethane	<26		70	26	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Bromoform	<34		70	34	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Bromomethane	<56		210	56	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Carbon tetrachloride	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Chlorobenzene	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Chloroethane	<35		70	35	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Chloroform	<26		140	26	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Chloromethane	<23		70	23	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
2-Chlorotoluene	<22		70	22	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
4-Chlorotoluene	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
cis-1,2-Dichloroethene	<29		70	29	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Dibromochloromethane	<34		70	34	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2-Dibromoethane (EDB)	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Dibromomethane	<19		70	19	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,4-Dichlorobenzene	<26		70	26	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1-Dichloroethane	<29		70	29	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2-Dichloroethane	<28		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1-Dichloroethene	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2-Dichloropropane	<30		70	30	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,3-Dichloropropane	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
2,2-Dichloropropane	<31		70	31	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1-Dichloropropene	<21		70	21	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Ethylbenzene	97		18	13	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Hexachlorobutadiene	<31		70	31	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Isopropylbenzene	46 J		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Isopropyl ether	<19		70	19	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Methylene Chloride	<110		350	110	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Naphthalene	360 B		70	23	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
n-Butylbenzene	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
N-Propylbenzene	66 J		70	29	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
p-Isopropyltoluene	42 J		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
sec-Butylbenzene	63 J		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Styrene	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
tert-Butylbenzene	<28		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1,1,2-Tetrachloroethane	<32		70	32	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Tetrachloroethene	<26		70	26	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Toluene	310		18	10	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
trans-1,2-Dichloroethene	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-220837-8

Date Collected: 08/11/22 11:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1,1-Trichloroethane	<27		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Trichloroethene	<12		35	12	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Trichlorofluoromethane	<30		70	30	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,2,4-Trimethylbenzene	290		70	25	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
1,3,5-Trimethylbenzene	95		70	27	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Vinyl chloride	<18		70	18	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Xylenes, Total	680		35	15	ug/Kg	✳	08/11/22 11:15	08/23/22 18:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124				08/11/22 11:15	08/23/22 18:01	50
Dibromofluoromethane (Surr)	92		75 - 120				08/11/22 11:15	08/23/22 18:01	50
1,2-Dichloroethane-d4 (Surr)	90		75 - 126				08/11/22 11:15	08/23/22 18:01	50
Toluene-d8 (Surr)	100		75 - 120				08/11/22 11:15	08/23/22 18:01	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	J	360	66	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Acenaphthylene	71	J	360	48	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Anthracene	440		360	61	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Benzo[a]anthracene	850		360	49	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Benzo[a]pyrene	1100		360	71	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Benzo[b]fluoranthene	1300		360	79	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Benzo[g,h,i]perylene	450		360	120	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Benzo[k]fluoranthene	470		360	110	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Chrysene	1200		360	100	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Dibenz(a,h)anthracene	130	J	360	71	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Fluoranthene	1800		360	68	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Fluorene	180	J	360	52	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Indeno[1,2,3-cd]pyrene	460		360	95	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Naphthalene	250	J	360	56	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Phenanthrene	2500		360	51	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Pyrene	2200		360	73	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
1-Methylnaphthalene	520	J	740	90	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
2-Methylnaphthalene	610	J	740	68	ug/Kg	✳	08/25/22 07:09	08/29/22 19:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83		37 - 147				08/25/22 07:09	08/29/22 19:59	10
Terphenyl-d14 (Surr)	104		42 - 157				08/25/22 07:09	08/29/22 19:59	10
2-Fluorobiphenyl (Surr)	92		43 - 145				08/25/22 07:09	08/29/22 19:59	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 19:34	1
PCB-1221	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 19:34	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✳	08/26/22 09:04	08/29/22 19:34	1
PCB-1242	<0.0070		0.018	0.0070	mg/Kg	✳	08/26/22 09:04	08/29/22 19:34	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-220837-8

Date Collected: 08/11/22 11:15

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0086		0.018	0.0086	mg/Kg	☼	08/26/22 09:04	08/29/22 19:34	1
PCB-1254	0.045		0.018	0.0061	mg/Kg	☼	08/26/22 09:04	08/29/22 19:34	1
PCB-1260	<0.0068		0.018	0.0068	mg/Kg	☼	08/26/22 09:04	08/29/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		49 - 129				08/26/22 09:04	08/29/22 19:34	1
DCB Decachlorobiphenyl	97		37 - 121				08/26/22 09:04	08/29/22 19:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Barium	66		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Cadmium	0.69		0.20	0.037	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Chromium	13		1.0	0.51	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Lead	350		0.51	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1
Silver	0.17	J	0.51	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 12:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.018	0.0059	mg/Kg	☼	08/23/22 14:50	08/24/22 09:34	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (12-13)

Lab Sample ID: 500-220837-9

Date Collected: 08/11/22 11:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		30	18	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Bromobenzene	<43		120	43	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Bromochloromethane	<52		120	52	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Bromodichloromethane	<45		120	45	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Bromoform	<58		120	58	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Bromomethane	<96		360	96	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Carbon tetrachloride	<46		120	46	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Chlorobenzene	<47		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Chloroethane	<61		120	61	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Chloroform	<45		240	45	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Chloromethane	<39		120	39	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
2-Chlorotoluene	<38		120	38	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
4-Chlorotoluene	<42		120	42	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
cis-1,2-Dichloroethene	<49		120	49	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
cis-1,3-Dichloropropene	<50		120	50	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Dibromochloromethane	<59		120	59	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,2-Dibromo-3-Chloropropane	<240		600	240	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,2-Dibromoethane (EDB)	<47		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Dibromomethane	<33		120	33	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,2-Dichlorobenzene	<40		120	40	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,3-Dichlorobenzene	<48		120	48	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,4-Dichlorobenzene	<44		120	44	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Dichlorodifluoromethane	<81		360	81	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,1-Dichloroethane	<49		120	49	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,2-Dichloroethane	<47		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,1-Dichloroethene	<47		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,2-Dichloropropane	<52		120	52	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,3-Dichloropropane	<44		120	44	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
2,2-Dichloropropane	<54		120	54	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,1-Dichloropropene	<36		120	36	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Ethylbenzene	300		30	22	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Hexachlorobutadiene	<54		120	54	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Isopropylbenzene	390		120	46	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Isopropyl ether	<33		120	33	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Methylene Chloride	<200		600	200	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Methyl tert-butyl ether	<48		120	48	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Naphthalene	5700 B		120	40	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
n-Butylbenzene	1800		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
N-Propylbenzene	670		120	50	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
p-Isopropyltoluene	780		120	44	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
sec-Butylbenzene	820		120	48	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Styrene	<47		120	47	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
tert-Butylbenzene	<48		120	48	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,1,1,2-Tetrachloroethane	<56		120	56	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
1,1,2,2-Tetrachloroethane	<48		120	48	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Tetrachloroethene	<45		120	45	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
Toluene	27 J		30	18	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
trans-1,2-Dichloroethene	<42		120	42	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100
trans-1,3-Dichloropropene	<44		120	44	ug/Kg	✱	08/11/22 11:25	08/23/22 18:47	100

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (12-13)

Lab Sample ID: 500-220837-9

Date Collected: 08/11/22 11:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<55		120	55	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,2,4-Trichlorobenzene	<41		120	41	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,1,1-Trichloroethane	<46		120	46	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,1,2-Trichloroethane	<42		120	42	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
Trichloroethene	<20		60	20	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
Trichlorofluoromethane	<52		120	52	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,2,3-Trichloropropane	<50		240	50	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,2,4-Trimethylbenzene	5800		120	43	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
1,3,5-Trimethylbenzene	1600		120	46	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
Vinyl chloride	<32		120	32	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
Xylenes, Total	1400		60	27	ug/Kg	☼	08/11/22 11:25	08/23/22 18:47	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				08/11/22 11:25	08/23/22 18:47	100
Dibromofluoromethane (Surr)	94		75 - 120				08/11/22 11:25	08/23/22 18:47	100
1,2-Dichloroethane-d4 (Surr)	92		75 - 126				08/11/22 11:25	08/23/22 18:47	100
Toluene-d8 (Surr)	101		75 - 120				08/11/22 11:25	08/23/22 18:47	100

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180		36	6.5	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Acenaphthylene	34	J	36	4.7	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Anthracene	17	J	36	6.0	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Benzo[a]anthracene	<4.8		36	4.8	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Benzo[b]fluoranthene	<7.8		36	7.8	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Chrysene	<9.8		36	9.8	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Fluoranthene	<6.7		36	6.7	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Fluorene	140		36	5.1	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Indeno[1,2,3-cd]pyrene	<9.3		36	9.3	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Naphthalene	1800		36	5.5	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Phenanthrene	150		36	5.0	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Pyrene	<7.1		36	7.1	ug/Kg	☼	08/25/22 07:09	08/29/22 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		37 - 147				08/25/22 07:09	08/29/22 20:21	1
Terphenyl-d14 (Surr)	105		42 - 157				08/25/22 07:09	08/29/22 20:21	1
2-Fluorobiphenyl (Surr)	105		43 - 145				08/25/22 07:09	08/29/22 20:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	3300		730	88	ug/Kg	☼	08/25/22 07:09	08/30/22 10:21	10
2-Methylnaphthalene	5200		730	66	ug/Kg	☼	08/25/22 07:09	08/30/22 10:21	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	52		37 - 147				08/25/22 07:09	08/30/22 10:21	10
Terphenyl-d14 (Surr)	99		42 - 157				08/25/22 07:09	08/30/22 10:21	10
2-Fluorobiphenyl (Surr)	72		43 - 145				08/25/22 07:09	08/30/22 10:21	10

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (12-13)

Lab Sample ID: 500-220837-9

Date Collected: 08/11/22 11:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0069		0.018	0.0069	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1221	<0.0069		0.018	0.0069	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1232	<0.0048		0.018	0.0048	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1242	<0.0069		0.018	0.0069	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1248	<0.0084		0.018	0.0084	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1254	<0.0060		0.018	0.0060	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	✱	08/26/22 09:04	08/29/22 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		49 - 129	08/26/22 09:04	08/29/22 19:49	1
DCB Decachlorobiphenyl	107		37 - 121	08/26/22 09:04	08/29/22 19:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		1.0	0.36	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Barium	27		1.0	0.12	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Cadmium	0.14	J	0.21	0.038	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Chromium	11		1.0	0.52	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Lead	5.7		0.52	0.24	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Selenium	0.81	J	1.0	0.61	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1
Silver	<0.13		0.52	0.13	mg/Kg	✱	08/23/22 14:41	08/24/22 12:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0059	mg/Kg	✱	08/23/22 14:50	08/24/22 09:36	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (16-17)

Lab Sample ID: 500-220837-10

Date Collected: 08/11/22 11:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.6		16	9.6	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Bromobenzene	<23		66	23	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Bromochloromethane	<28		66	28	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Bromodichloromethane	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Bromoform	<32		66	32	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Bromomethane	<52		200	52	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Carbon tetrachloride	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Chlorobenzene	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Chloroethane	<33		66	33	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Chloroform	<24		130	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Chloromethane	<21		66	21	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
2-Chlorotoluene	<21		66	21	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
4-Chlorotoluene	<23		66	23	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Dibromochloromethane	<32		66	32	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2-Dibromoethane (EDB)	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Dibromomethane	<18		66	18	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1-Dichloroethane	<27		66	27	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2-Dichloroethane	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1-Dichloroethene	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2-Dichloropropane	<28		66	28	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,3-Dichloropropane	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
2,2-Dichloropropane	<29		66	29	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1-Dichloropropene	<20		66	20	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Ethylbenzene	<12		16	12	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Hexachlorobutadiene	<29		66	29	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Isopropylbenzene	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Isopropyl ether	<18		66	18	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Methylene Chloride	<110		330	110	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Naphthalene	<26	J B	66	22	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
n-Butylbenzene	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
N-Propylbenzene	<27		66	27	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
p-Isopropyltoluene	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
sec-Butylbenzene	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Styrene	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
tert-Butylbenzene	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Tetrachloroethene	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Toluene	<9.7		16	9.7	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (16-17)

Lab Sample ID: 500-220837-10

Date Collected: 08/11/22 11:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Trichloroethene	<11		33	11	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Trichlorofluoromethane	<28		66	28	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Vinyl chloride	<17		66	17	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Xylenes, Total	<14		33	14	ug/Kg	✳	08/11/22 11:20	08/23/22 18:24	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124				08/11/22 11:20	08/23/22 18:24	50
Dibromofluoromethane (Surr)	95		75 - 120				08/11/22 11:20	08/23/22 18:24	50
1,2-Dichloroethane-d4 (Surr)	93		75 - 126				08/11/22 11:20	08/23/22 18:24	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 11:20	08/23/22 18:24	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10		56	10	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Acenaphthylene	<7.5		56	7.5	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Anthracene	<9.5		56	9.5	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Benzo[a]anthracene	<7.6		56	7.6	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Benzo[a]pyrene	<11		56	11	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Benzo[b]fluoranthene	<12		56	12	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Benzo[g,h,i]perylene	<18		56	18	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Benzo[k]fluoranthene	<17		56	17	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Chrysene	<15		56	15	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Dibenz(a,h)anthracene	<11		56	11	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Fluoranthene	<11		56	11	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Fluorene	<8.0		56	8.0	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Indeno[1,2,3-cd]pyrene	<15		56	15	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Naphthalene	11 J		56	8.7	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Phenanthrene	14 J		56	7.9	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Pyrene	<11		56	11	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
1-Methylnaphthalene	28 J		110	14	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
2-Methylnaphthalene	41 J		110	10	ug/Kg	✳	08/25/22 07:09	08/29/22 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		37 - 147				08/25/22 07:09	08/29/22 20:42	1
Terphenyl-d14 (Surr)	97		42 - 157				08/25/22 07:09	08/29/22 20:42	1
2-Fluorobiphenyl (Surr)	85		43 - 145				08/25/22 07:09	08/29/22 20:42	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.049	0.019	mg/Kg	✳	08/26/22 09:04	08/29/22 20:03	1
PCB-1221	<0.019		0.049	0.019	mg/Kg	✳	08/26/22 09:04	08/29/22 20:03	1
PCB-1232	<0.013		0.049	0.013	mg/Kg	✳	08/26/22 09:04	08/29/22 20:03	1
PCB-1242	<0.019		0.049	0.019	mg/Kg	✳	08/26/22 09:04	08/29/22 20:03	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (16-17)

Lab Sample ID: 500-220837-10

Date Collected: 08/11/22 11:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 86.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.023		0.049	0.023	mg/Kg	☼	08/26/22 09:04	08/29/22 20:03	1
PCB-1254	<0.017		0.049	0.017	mg/Kg	☼	08/26/22 09:04	08/29/22 20:03	1
PCB-1260	<0.019		0.049	0.019	mg/Kg	☼	08/26/22 09:04	08/29/22 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		49 - 129				08/26/22 09:04	08/29/22 20:03	1
DCB Decachlorobiphenyl	74		37 - 121				08/26/22 09:04	08/29/22 20:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.1	0.37	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Barium	46		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Cadmium	<0.039		0.22	0.039	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Chromium	16		1.1	0.53	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Lead	7.4		0.54	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1
Silver	0.21	J	0.54	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 12:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0060	mg/Kg	☼	08/23/22 14:50	08/24/22 09:47	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (24-25)

Lab Sample ID: 500-220837-11

Date Collected: 08/11/22 11:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Bromobenzene	<21		60	21	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Bromochloromethane	<26		60	26	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Bromodichloromethane	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Bromoform	<29		60	29	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Bromomethane	<48		180	48	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Carbon tetrachloride	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Chlorobenzene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Chloroethane	<30		60	30	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Chloroform	<22		120	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Chloromethane	<19		60	19	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
2-Chlorotoluene	<19		60	19	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
4-Chlorotoluene	<21		60	21	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Dibromochloromethane	<29		60	29	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2-Dibromoethane (EDB)	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Dibromomethane	<16		60	16	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1-Dichloroethane	<25		60	25	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2-Dichloroethane	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1-Dichloroethene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2-Dichloropropane	<26		60	26	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,3-Dichloropropane	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
2,2-Dichloropropane	<27		60	27	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1-Dichloropropene	<18		60	18	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Ethylbenzene	<11		15	11	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Hexachlorobutadiene	<27		60	27	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Isopropylbenzene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Isopropyl ether	<17		60	17	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Methylene Chloride	180	J B	300	98	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Naphthalene	<20		60	20	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
n-Butylbenzene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
N-Propylbenzene	<25		60	25	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
p-Isopropyltoluene	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
sec-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Styrene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
tert-Butylbenzene	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Tetrachloroethene	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Toluene	<8.8		15	8.8	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (24-25)

Lab Sample ID: 500-220837-11

Date Collected: 08/11/22 11:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Trichloroethene	<9.9		30	9.9	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Trichlorofluoromethane	<26		60	26	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Vinyl chloride	<16		60	16	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Xylenes, Total	<13		30	13	ug/Kg	✱	08/11/22 11:30	08/24/22 19:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124				08/11/22 11:30	08/24/22 19:01	50
Dibromofluoromethane (Surr)	93		75 - 120				08/11/22 11:30	08/24/22 19:01	50
1,2-Dichloroethane-d4 (Surr)	93		75 - 126				08/11/22 11:30	08/24/22 19:01	50
Toluene-d8 (Surr)	100		75 - 120				08/11/22 11:30	08/24/22 19:01	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.5		36	6.5	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Anthracene	<6.1		36	6.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Benzo[b]fluoranthene	<7.8		36	7.8	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Chrysene	<9.9		36	9.9	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Fluoranthene	<6.7		36	6.7	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Fluorene	<5.1		36	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Naphthalene	<5.6		36	5.6	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Phenanthrene	24 J		36	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Pyrene	<7.2		36	7.2	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
2-Methylnaphthalene	7.4 J		73	6.7	ug/Kg	✱	08/25/22 07:09	08/29/22 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		37 - 147				08/25/22 07:09	08/29/22 21:03	1
Terphenyl-d14 (Surr)	103		42 - 157				08/25/22 07:09	08/29/22 21:03	1
2-Fluorobiphenyl (Surr)	101		43 - 145				08/25/22 07:09	08/29/22 21:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0071		0.018	0.0071	mg/Kg	✱	08/26/22 09:04	08/29/22 20:18	1
PCB-1221	<0.0071		0.018	0.0071	mg/Kg	✱	08/26/22 09:04	08/29/22 20:18	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✱	08/26/22 09:04	08/29/22 20:18	1
PCB-1242	<0.0070		0.018	0.0070	mg/Kg	✱	08/26/22 09:04	08/29/22 20:18	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (24-25)

Lab Sample ID: 500-220837-11

Date Collected: 08/11/22 11:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0085		0.018	0.0085	mg/Kg	☼	08/26/22 09:04	08/29/22 20:18	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	☼	08/26/22 09:04	08/29/22 20:18	1
PCB-1260	<0.0068		0.018	0.0068	mg/Kg	☼	08/26/22 09:04	08/29/22 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		49 - 129				08/26/22 09:04	08/29/22 20:18	1
DCB Decachlorobiphenyl	67		37 - 121				08/26/22 09:04	08/29/22 20:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Barium	29		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Cadmium	3.8	F1	0.21	0.037	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Chromium	10		1.0	0.51	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Lead	6.5		0.52	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Selenium	<0.61	F1	1.0	0.61	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1
Silver	0.18	J	0.52	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 09:50	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-220837-12

Date Collected: 08/11/22 12:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Bromobenzene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Bromochloromethane	<26		61	26	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Bromodichloromethane	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Bromoform	<29		61	29	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Bromomethane	<48		180	48	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Carbon tetrachloride	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Chlorobenzene	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Chloroethane	<31		61	31	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Chloroform	<22		120	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Chloromethane	<19		61	19	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
2-Chlorotoluene	<19		61	19	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
4-Chlorotoluene	<21		61	21	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Dibromochloromethane	<30		61	30	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2-Dibromoethane (EDB)	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Dibromomethane	<16		61	16	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1-Dichloroethane	<25		61	25	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2-Dichloroethane	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1-Dichloroethene	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2-Dichloropropane	<26		61	26	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,3-Dichloropropane	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
2,2-Dichloropropane	<27		61	27	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1-Dichloropropene	<18		61	18	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Ethylbenzene	<11		15	11	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Hexachlorobutadiene	<27		61	27	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Isopropylbenzene	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Isopropyl ether	<17		61	17	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Methylene Chloride	150	J B	300	99	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Naphthalene	38	J B	61	20	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
n-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
N-Propylbenzene	<25		61	25	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
p-Isopropyltoluene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
sec-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Styrene	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
tert-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Tetrachloroethene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Toluene	<8.9		15	8.9	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-220837-12

Date Collected: 08/11/22 12:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Trichloroethene	<9.9		30	9.9	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Trichlorofluoromethane	<26		61	26	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Vinyl chloride	<16		61	16	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50
Xylenes, Total	21	J	30	13	ug/Kg	✱	08/11/22 12:00	08/24/22 19:24	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	08/11/22 12:00	08/24/22 19:24	50
Dibromofluoromethane (Surr)	91		75 - 120	08/11/22 12:00	08/24/22 19:24	50
1,2-Dichloroethane-d4 (Surr)	93		75 - 126	08/11/22 12:00	08/24/22 19:24	50
Toluene-d8 (Surr)	102		75 - 120	08/11/22 12:00	08/24/22 19:24	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<65		360	65	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Acenaphthylene	<47		360	47	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Anthracene	190	J	360	60	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Benzo[a]anthracene	710		360	48	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Benzo[a]pyrene	670		360	70	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Benzo[b]fluoranthene	860		360	78	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Benzo[g,h,i]perylene	270	J	360	120	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Benzo[k]fluoranthene	480		360	110	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Chrysene	660		360	98	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Dibenz(a,h)anthracene	<70		360	70	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Fluoranthene	1400		360	67	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Fluorene	<51		360	51	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Indeno[1,2,3-cd]pyrene	290	J	360	93	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Naphthalene	<55		360	55	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Phenanthrene	790		360	50	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
Pyrene	1600		360	72	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
1-Methylnaphthalene	<88		730	88	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10
2-Methylnaphthalene	<66		730	66	ug/Kg	✱	08/25/22 07:09	08/29/22 21:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	63		37 - 147	08/25/22 07:09	08/29/22 21:25	10
Terphenyl-d14 (Surr)	97		42 - 157	08/25/22 07:09	08/29/22 21:25	10
2-Fluorobiphenyl (Surr)	79		43 - 145	08/25/22 07:09	08/29/22 21:25	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0072		0.018	0.0072	mg/Kg	✱	08/26/22 09:04	08/29/22 20:33	1
PCB-1221	<0.0072		0.018	0.0072	mg/Kg	✱	08/26/22 09:04	08/29/22 20:33	1
PCB-1232	<0.0050		0.018	0.0050	mg/Kg	✱	08/26/22 09:04	08/29/22 20:33	1
PCB-1242	<0.0071		0.018	0.0071	mg/Kg	✱	08/26/22 09:04	08/29/22 20:33	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-220837-12

Date Collected: 08/11/22 12:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0087		0.018	0.0087	mg/Kg	☼	08/26/22 09:04	08/29/22 20:33	1
PCB-1254	<0.0062		0.018	0.0062	mg/Kg	☼	08/26/22 09:04	08/29/22 20:33	1
PCB-1260	<0.0069		0.018	0.0069	mg/Kg	☼	08/26/22 09:04	08/29/22 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		49 - 129				08/26/22 09:04	08/29/22 20:33	1
DCB Decachlorobiphenyl	66		37 - 121				08/26/22 09:04	08/29/22 20:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.37	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Barium	62		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Cadmium	0.30		0.22	0.039	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Chromium	14		1.1	0.54	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Lead	160		0.55	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1
Silver	0.42	J	0.55	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 13:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.017	0.0057	mg/Kg	☼	08/23/22 14:50	08/24/22 09:51	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (8-9)

Lab Sample ID: 500-220837-13

Date Collected: 08/11/22 12:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Bromobenzene	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Bromochloromethane	<26		61	26	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Bromodichloromethane	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Bromoform	<30		61	30	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Bromomethane	<49		180	49	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Carbon tetrachloride	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Chlorobenzene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Chloroethane	<31		61	31	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Chloroform	<23		120	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Chloromethane	<20		61	20	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
2-Chlorotoluene	<19		61	19	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
4-Chlorotoluene	<21		61	21	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Dibromochloromethane	<30		61	30	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2-Dibromoethane (EDB)	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Dibromomethane	<17		61	17	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1-Dichloroethane	<25		61	25	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2-Dichloroethane	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1-Dichloroethene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2-Dichloropropane	<26		61	26	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,3-Dichloropropane	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
2,2-Dichloropropane	<27		61	27	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1-Dichloropropene	<18		61	18	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Ethylbenzene	<11		15	11	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Hexachlorobutadiene	<27		61	27	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Isopropylbenzene	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Isopropyl ether	<17		61	17	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Methylene Chloride	160	J B	310	100	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Naphthalene	<20		61	20	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
n-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
N-Propylbenzene	<25		61	25	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
p-Isopropyltoluene	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
sec-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Styrene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
tert-Butylbenzene	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Tetrachloroethene	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Toluene	<9.0		15	9.0	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (8-9)

Lab Sample ID: 500-220837-13

Date Collected: 08/11/22 12:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,1,2-Trichloroethane	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Trichloroethene	<10		31	10	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Trichlorofluoromethane	<26		61	26	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Vinyl chloride	<16		61	16	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Xylenes, Total	<13		31	13	ug/Kg	✱	08/11/22 12:05	08/24/22 19:47	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124				08/11/22 12:05	08/24/22 19:47	50
Dibromofluoromethane (Surr)	93		75 - 120				08/11/22 12:05	08/24/22 19:47	50
1,2-Dichloroethane-d4 (Surr)	90		75 - 126				08/11/22 12:05	08/24/22 19:47	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 12:05	08/24/22 19:47	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.6		37	6.6	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Anthracene	<6.2		37	6.2	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Benzo[a]pyrene	<7.1		37	7.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Benzo[b]fluoranthene	<8.0		37	8.0	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Chrysene	<10		37	10	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Dibenz(a,h)anthracene	<7.1		37	7.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Fluoranthene	<6.8		37	6.8	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Fluorene	<5.2		37	5.2	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Indeno[1,2,3-cd]pyrene	<9.6		37	9.6	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Naphthalene	<5.7		37	5.7	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Phenanthrene	<5.1		37	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Pyrene	<7.3		37	7.3	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
1-Methylnaphthalene	<9.0		74	9.0	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
2-Methylnaphthalene	<6.8		74	6.8	ug/Kg	✱	08/25/22 07:09	08/29/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		37 - 147				08/25/22 07:09	08/29/22 21:46	1
Terphenyl-d14 (Surr)	105		42 - 157				08/25/22 07:09	08/29/22 21:46	1
2-Fluorobiphenyl (Surr)	75		43 - 145				08/25/22 07:09	08/29/22 21:46	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.010		0.027	0.010	mg/Kg	✱	08/26/22 09:04	08/29/22 20:48	1
PCB-1221	<0.010		0.027	0.010	mg/Kg	✱	08/26/22 09:04	08/29/22 20:48	1
PCB-1232	<0.0072		0.027	0.0072	mg/Kg	✱	08/26/22 09:04	08/29/22 20:48	1
PCB-1242	<0.010		0.027	0.010	mg/Kg	✱	08/26/22 09:04	08/29/22 20:48	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (8-9)

Lab Sample ID: 500-220837-13

Date Collected: 08/11/22 12:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.013		0.027	0.013	mg/Kg	☼	08/26/22 09:04	08/29/22 20:48	1
PCB-1254	<0.0090		0.027	0.0090	mg/Kg	☼	08/26/22 09:04	08/29/22 20:48	1
PCB-1260	<0.010		0.027	0.010	mg/Kg	☼	08/26/22 09:04	08/29/22 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		49 - 129				08/26/22 09:04	08/29/22 20:48	1
DCB Decachlorobiphenyl	93		37 - 121				08/26/22 09:04	08/29/22 20:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Barium	22		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Cadmium	0.096	J	0.21	0.037	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Chromium	8.0		1.0	0.51	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Lead	5.5		0.51	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 13:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 09:53	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (9-10)

Lab Sample ID: 500-220837-14

Date Collected: 08/11/22 12:10

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.8		17	9.8	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Bromobenzene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Bromochloromethane	<29		67	29	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Bromodichloromethane	<25		67	25	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Bromoform	<33		67	33	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Bromomethane	<53		200	53	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Carbon tetrachloride	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Chlorobenzene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Chloroethane	<34		67	34	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Chloroform	<25		130	25	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Chloromethane	<22		67	22	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
2-Chlorotoluene	<21		67	21	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
4-Chlorotoluene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Dibromochloromethane	<33		67	33	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2-Dibromoethane (EDB)	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Dibromomethane	<18		67	18	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1-Dichloroethane	<28		67	28	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2-Dichloroethane	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1-Dichloroethene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2-Dichloropropane	<29		67	29	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,3-Dichloropropane	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
2,2-Dichloropropane	<30		67	30	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1-Dichloropropene	<20		67	20	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Ethylbenzene	19		17	12	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Hexachlorobutadiene	<30		67	30	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Isopropylbenzene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Isopropyl ether	<19		67	19	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Methylene Chloride	180 J B		340	110	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Naphthalene	<22		67	22	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
n-Butylbenzene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
N-Propylbenzene	<28		67	28	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
p-Isopropyltoluene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
sec-Butylbenzene	<27		67	27	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Styrene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
tert-Butylbenzene	<27		67	27	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Tetrachloroethene	<25		67	25	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Toluene	<9.9		17	9.9	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
trans-1,2-Dichloroethene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (9-10)

Lab Sample ID: 500-220837-14

Date Collected: 08/11/22 12:10

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1,1-Trichloroethane	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Trichloroethene	<11		34	11	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Trichlorofluoromethane	<29		67	29	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
1,3,5-Trimethylbenzene	<26		67	26	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Vinyl chloride	<18		67	18	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50
Xylenes, Total	83		34	15	ug/Kg	✳	08/11/22 12:10	08/24/22 20:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	08/11/22 12:10	08/24/22 20:10	50
Dibromofluoromethane (Surr)	93		75 - 120	08/11/22 12:10	08/24/22 20:10	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 126	08/11/22 12:10	08/24/22 20:10	50
Toluene-d8 (Surr)	102		75 - 120	08/11/22 12:10	08/24/22 20:10	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.9		38	6.9	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Anthracene	<6.4		38	6.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Benzo[a]anthracene	<5.2		38	5.2	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Benzo[b]fluoranthene	<8.3		38	8.3	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Chrysene	<10		38	10	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Fluoranthene	<7.1		38	7.1	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Fluorene	<5.4		38	5.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Indeno[1,2,3-cd]pyrene	<10		38	10	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Naphthalene	6.0 J		38	5.9	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Phenanthrene	<5.4		38	5.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
Pyrene	<7.6		38	7.6	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
1-Methylnaphthalene	<9.4		78	9.4	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1
2-Methylnaphthalene	<7.1		78	7.1	ug/Kg	✳	08/25/22 07:09	08/29/22 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	64		37 - 147	08/25/22 07:09	08/29/22 22:07	1
Terphenyl-d14 (Surr)	99		42 - 157	08/25/22 07:09	08/29/22 22:07	1
2-Fluorobiphenyl (Surr)	76		43 - 145	08/25/22 07:09	08/29/22 22:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.011		0.028	0.011	mg/Kg	✳	08/26/22 09:04	08/29/22 21:03	1
PCB-1221	<0.011		0.028	0.011	mg/Kg	✳	08/26/22 09:04	08/29/22 21:03	1
PCB-1232	<0.0076		0.028	0.0076	mg/Kg	✳	08/26/22 09:04	08/29/22 21:03	1
PCB-1242	<0.011		0.028	0.011	mg/Kg	✳	08/26/22 09:04	08/29/22 21:03	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (9-10)

Lab Sample ID: 500-220837-14

Date Collected: 08/11/22 12:10

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.013		0.028	0.013	mg/Kg	☼	08/26/22 09:04	08/29/22 21:03	1
PCB-1254	<0.0095		0.028	0.0095	mg/Kg	☼	08/26/22 09:04	08/29/22 21:03	1
PCB-1260	<0.011		0.028	0.011	mg/Kg	☼	08/26/22 09:04	08/29/22 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		49 - 129				08/26/22 09:04	08/29/22 21:03	1
DCB Decachlorobiphenyl	100		37 - 121				08/26/22 09:04	08/29/22 21:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		1.1	0.37	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Barium	5.8		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Cadmium	0.097	J	0.22	0.039	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Chromium	4.0		1.1	0.53	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Lead	2.1		0.54	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1
Silver	0.20	J	0.54	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 13:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0061	mg/Kg	☼	08/23/22 14:50	08/24/22 09:56	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (2-4)

Lab Sample ID: 500-220837-15

Date Collected: 08/11/22 12:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Bromobenzene	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Bromochloromethane	<36		84	36	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Bromodichloromethane	<31		84	31	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Bromoform	<41		84	41	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Bromomethane	<67		250	67	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Carbon tetrachloride	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Chlorobenzene	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Chloroethane	<42		84	42	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Chloroform	<31		170	31	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Chloromethane	<27		84	27	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
2-Chlorotoluene	<26		84	26	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
4-Chlorotoluene	<29		84	29	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
cis-1,2-Dichloroethene	<34		84	34	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
cis-1,3-Dichloropropene	<35		84	35	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Dibromochloromethane	<41		84	41	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2-Dibromo-3-Chloropropane	<170		420	170	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2-Dibromoethane (EDB)	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Dibromomethane	<23		84	23	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2-Dichlorobenzene	<28		84	28	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,3-Dichlorobenzene	<34		84	34	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,4-Dichlorobenzene	<31		84	31	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Dichlorodifluoromethane	<57		250	57	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1-Dichloroethane	<34		84	34	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2-Dichloroethane	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1-Dichloroethene	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2-Dichloropropane	<36		84	36	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,3-Dichloropropane	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
2,2-Dichloropropane	<37		84	37	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1-Dichloropropene	<25		84	25	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Ethylbenzene	<15		21	15	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Hexachlorobutadiene	<37		84	37	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Isopropylbenzene	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Isopropyl ether	<23		84	23	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Methylene Chloride	220	J B	420	140	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Methyl tert-butyl ether	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Naphthalene	39	J B	84	28	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
n-Butylbenzene	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
N-Propylbenzene	<35		84	35	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
p-Isopropyltoluene	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
sec-Butylbenzene	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Styrene	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
tert-Butylbenzene	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1,1,2-Tetrachloroethane	<39		84	39	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1,1,2,2-Tetrachloroethane	<33		84	33	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Tetrachloroethene	<31		84	31	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Toluene	<12		21	12	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
trans-1,2-Dichloroethene	<29		84	29	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
trans-1,3-Dichloropropene	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (2-4)

Lab Sample ID: 500-220837-15

Date Collected: 08/11/22 12:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		84	38	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2,4-Trichlorobenzene	<29		84	29	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1,1-Trichloroethane	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,1,2-Trichloroethane	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Trichloroethene	<14		42	14	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Trichlorofluoromethane	<36		84	36	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2,3-Trichloropropane	<35		170	35	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,2,4-Trimethylbenzene	<30		84	30	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
1,3,5-Trimethylbenzene	<32		84	32	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Vinyl chloride	<22		84	22	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50
Xylenes, Total	54		42	18	ug/Kg	✳	08/11/22 12:30	08/24/22 20:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	08/11/22 12:30	08/24/22 20:33	50
Dibromofluoromethane (Surr)	94		75 - 120	08/11/22 12:30	08/24/22 20:33	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126	08/11/22 12:30	08/24/22 20:33	50
Toluene-d8 (Surr)	100		75 - 120	08/11/22 12:30	08/24/22 20:33	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	350	64	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Acenaphthylene	62	J	350	47	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Anthracene	1000		350	60	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Benzo[a]anthracene	3000		350	48	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Benzo[a]pyrene	3500		350	69	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Benzo[b]fluoranthene	4700		350	77	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Benzo[g,h,i]perylene	1400		350	120	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Benzo[k]fluoranthene	2300		350	110	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Chrysene	3400		350	97	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Dibenz(a,h)anthracene	410		350	69	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Fluoranthene	6200		350	66	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Fluorene	130	J	350	50	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Indeno[1,2,3-cd]pyrene	1500		350	93	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Naphthalene	<55		350	55	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Phenanthrene	2400		350	50	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
Pyrene	5900		350	71	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
1-Methylnaphthalene	120	J	720	87	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10
2-Methylnaphthalene	100	J	720	66	ug/Kg	✳	08/25/22 07:09	08/29/22 22:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	60		37 - 147	08/25/22 07:09	08/29/22 22:29	10
Terphenyl-d14 (Surr)	88		42 - 157	08/25/22 07:09	08/29/22 22:29	10
2-Fluorobiphenyl (Surr)	70		43 - 145	08/25/22 07:09	08/29/22 22:29	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 21:18	1
PCB-1221	<0.0071		0.018	0.0071	mg/Kg	✳	08/26/22 09:04	08/29/22 21:18	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✳	08/26/22 09:04	08/29/22 21:18	1
PCB-1242	<0.0070		0.018	0.0070	mg/Kg	✳	08/26/22 09:04	08/29/22 21:18	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (2-4)

Lab Sample ID: 500-220837-15

Date Collected: 08/11/22 12:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0086		0.018	0.0086	mg/Kg	☼	08/26/22 09:04	08/29/22 21:18	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	☼	08/26/22 09:04	08/29/22 21:18	1
PCB-1260	<0.0068		0.018	0.0068	mg/Kg	☼	08/26/22 09:04	08/29/22 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		49 - 129				08/26/22 09:04	08/29/22 21:18	1
DCB Decachlorobiphenyl	81		37 - 121				08/26/22 09:04	08/29/22 21:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.0	0.35	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Barium	78		1.0	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Cadmium	0.21		0.20	0.037	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Chromium	11		1.0	0.50	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Lead	55		0.51	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1
Silver	0.21	J	0.51	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 13:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0057	mg/Kg	☼	08/23/22 14:50	08/24/22 09:57	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (7-9)

Lab Sample ID: 500-220837-16

Date Collected: 08/11/22 12:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		17	10	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Bromobenzene	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Bromochloromethane	<30		69	30	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Bromodichloromethane	<26		69	26	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Bromoform	<33		69	33	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Bromomethane	<55		210	55	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Carbon tetrachloride	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Chlorobenzene	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Chloroethane	<35		69	35	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Chloroform	<26		140	26	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Chloromethane	<22		69	22	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
2-Chlorotoluene	<22		69	22	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
4-Chlorotoluene	<24		69	24	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Dibromochloromethane	<34		69	34	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2-Dibromoethane (EDB)	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Dibromomethane	<19		69	19	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1-Dichloroethane	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2-Dichloroethane	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1-Dichloroethene	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2-Dichloropropane	<30		69	30	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,3-Dichloropropane	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
2,2-Dichloropropane	<31		69	31	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1-Dichloropropene	<21		69	21	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Ethylbenzene	<13		17	13	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Hexachlorobutadiene	<31		69	31	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Isopropylbenzene	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Isopropyl ether	<19		69	19	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Methylene Chloride	<110		350	110	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Naphthalene	100		69	23	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
n-Butylbenzene	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
N-Propylbenzene	<29		69	29	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
p-Isopropyltoluene	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
sec-Butylbenzene	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Styrene	<27		69	27	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
tert-Butylbenzene	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1,2,2-Tetrachloroethane	<28		69	28	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Tetrachloroethene	<26		69	26	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Toluene	<10		17	10	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (7-9)

Lab Sample ID: 500-220837-16

Date Collected: 08/11/22 12:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Trichloroethene	<11		35	11	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Trichlorofluoromethane	<30		69	30	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Vinyl chloride	<18		69	18	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Xylenes, Total	<15		35	15	ug/Kg	✱	08/11/22 12:35	08/25/22 11:10	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		72 - 124				08/11/22 12:35	08/25/22 11:10	50
Dibromofluoromethane (Surr)	97		75 - 120				08/11/22 12:35	08/25/22 11:10	50
1,2-Dichloroethane-d4 (Surr)	100		75 - 126				08/11/22 12:35	08/25/22 11:10	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 12:35	08/25/22 11:10	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	30	J	39	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Acenaphthylene	140		39	5.2	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Anthracene	300		39	6.5	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Benzo[a]anthracene	980		39	5.3	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Benzo[a]pyrene	900		39	7.6	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Benzo[b]fluoranthene	1200		39	8.5	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Benzo[g,h,i]perylene	270		39	13	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Benzo[k]fluoranthene	480		39	12	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Chrysene	890		39	11	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Dibenz(a,h)anthracene	90		39	7.6	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Fluoranthene	1000		39	7.3	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Fluorene	57		39	5.5	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Indeno[1,2,3-cd]pyrene	350		39	10	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Naphthalene	46		39	6.0	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Phenanthrene	850		39	5.5	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Pyrene	1200		39	7.8	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
1-Methylnaphthalene	21	J	79	9.6	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
2-Methylnaphthalene	34	J	79	7.2	ug/Kg	✱	08/25/22 07:09	08/29/22 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		37 - 147				08/25/22 07:09	08/29/22 22:50	1
Terphenyl-d14 (Surr)	84		42 - 157				08/25/22 07:09	08/29/22 22:50	1
2-Fluorobiphenyl (Surr)	81		43 - 145				08/25/22 07:09	08/29/22 22:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.011		0.028	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 21:32	1
PCB-1221	<0.011		0.028	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 21:32	1
PCB-1232	<0.0077		0.028	0.0077	mg/Kg	✱	08/26/22 09:04	08/29/22 21:32	1
PCB-1242	<0.011		0.028	0.011	mg/Kg	✱	08/26/22 09:04	08/29/22 21:32	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (7-9)

Lab Sample ID: 500-220837-16

Date Collected: 08/11/22 12:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 83.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.013		0.028	0.013	mg/Kg	☼	08/26/22 09:04	08/29/22 21:32	1
PCB-1254	<0.0096		0.028	0.0096	mg/Kg	☼	08/26/22 09:04	08/29/22 21:32	1
PCB-1260	<0.011		0.028	0.011	mg/Kg	☼	08/26/22 09:04	08/29/22 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		49 - 129				08/26/22 09:04	08/29/22 21:32	1
DCB Decachlorobiphenyl	92		37 - 121				08/26/22 09:04	08/29/22 21:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		2.3	0.77	mg/Kg	☼	08/23/22 14:41	08/24/22 15:42	2
Barium	81		1.1	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 13:41	1
Cadmium	<0.041		0.23	0.041	mg/Kg	☼	08/23/22 14:41	08/24/22 13:41	1
Chromium	9.8		1.1	0.56	mg/Kg	☼	08/23/22 14:41	08/24/22 13:41	1
Lead	39		1.1	0.52	mg/Kg	☼	08/23/22 14:41	08/24/22 15:42	2
Selenium	1.7		1.1	0.66	mg/Kg	☼	08/23/22 14:41	08/24/22 13:41	1
Silver	0.17	J	0.56	0.15	mg/Kg	☼	08/23/22 14:41	08/24/22 13:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.019	0.0062	mg/Kg	☼	08/23/22 14:50	08/24/22 09:59	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-220837-17

Date Collected: 08/11/22 13:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Bromobenzene	<27		76	27	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Bromochloromethane	<33		76	33	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Bromodichloromethane	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Bromoform	<37		76	37	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Bromomethane	<61		230	61	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Carbon tetrachloride	<29		76	29	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Chlorobenzene	<29		76	29	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Chloroethane	<38		76	38	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Chloroform	<28		150	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Chloromethane	<24		76	24	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
2-Chlorotoluene	<24		76	24	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
4-Chlorotoluene	<27		76	27	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
cis-1,2-Dichloroethene	<31		76	31	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
cis-1,3-Dichloropropene	<32		76	32	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Dibromochloromethane	<37		76	37	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,2-Dibromoethane (EDB)	<29		76	29	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Dibromomethane	<21		76	21	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,2-Dichlorobenzene	<25		76	25	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,3-Dichlorobenzene	<31		76	31	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,4-Dichlorobenzene	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Dichlorodifluoromethane	<51		230	51	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,1-Dichloroethane	<31		76	31	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,2-Dichloroethane	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,1-Dichloroethene	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,2-Dichloropropane	<33		76	33	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,3-Dichloropropane	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
2,2-Dichloropropane	<34		76	34	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,1-Dichloropropene	<23		76	23	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Ethylbenzene	<14		19	14	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Hexachlorobutadiene	<34		76	34	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Isopropylbenzene	<29		76	29	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Isopropyl ether	<21		76	21	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Methylene Chloride	<120		380	120	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Methyl tert-butyl ether	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Naphthalene	110		76	25	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
n-Butylbenzene	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
N-Propylbenzene	<32		76	32	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
p-Isopropyltoluene	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
sec-Butylbenzene	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Styrene	<29		76	29	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
tert-Butylbenzene	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,1,1,2-Tetrachloroethane	<35		76	35	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
1,1,2,2-Tetrachloroethane	<30		76	30	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Tetrachloroethene	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
Toluene	<11		19	11	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
trans-1,2-Dichloroethene	<27		76	27	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50
trans-1,3-Dichloropropene	<28		76	28	ug/Kg	✱	08/11/22 13:20	08/25/22 11:33	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-220837-17

Date Collected: 08/11/22 13:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<35		76	35	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,2,4-Trichlorobenzene	<26		76	26	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,1,1-Trichloroethane	<29		76	29	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,1,2-Trichloroethane	<27		76	27	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
Trichloroethene	<13		38	13	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
Trichlorofluoromethane	<33		76	33	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,2,3-Trichloropropane	<32		150	32	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,2,4-Trimethylbenzene	<27		76	27	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
1,3,5-Trimethylbenzene	<29		76	29	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
Vinyl chloride	<20		76	20	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
Xylenes, Total	<17		38	17	ug/Kg	✳	08/11/22 13:20	08/25/22 11:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124				08/11/22 13:20	08/25/22 11:33	50
Dibromofluoromethane (Surr)	99		75 - 120				08/11/22 13:20	08/25/22 11:33	50
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				08/11/22 13:20	08/25/22 11:33	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 13:20	08/25/22 11:33	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1800		710	130	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Acenaphthylene	150	J	710	94	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Anthracene	7900		710	120	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Benzo[a]anthracene	15000		710	96	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Benzo[a]pyrene	15000		710	140	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Benzo[b]fluoranthene	20000		710	150	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Benzo[g,h,i]perylene	3900		710	230	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Benzo[k]fluoranthene	8200		710	210	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Chrysene	15000		710	190	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Dibenz(a,h)anthracene	1100		710	140	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Fluoranthene	30000		710	130	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Fluorene	2000		710	100	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Indeno[1,2,3-cd]pyrene	4100		710	180	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Naphthalene	290	J	710	110	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Phenanthrene	18000		710	99	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Pyrene	34000		710	140	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
1-Methylnaphthalene	310	J	1400	170	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
2-Methylnaphthalene	280	J	1400	130	ug/Kg	✳	08/25/22 07:09	08/29/22 23:11	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	D	37 - 147				08/25/22 07:09	08/29/22 23:11	20
Terphenyl-d14 (Surr)	0	D	42 - 157				08/25/22 07:09	08/29/22 23:11	20
2-Fluorobiphenyl (Surr)	0	D	43 - 145				08/25/22 07:09	08/29/22 23:11	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0070		0.018	0.0070	mg/Kg	✳	08/26/22 09:04	08/29/22 21:47	1
PCB-1221	<0.0070		0.018	0.0070	mg/Kg	✳	08/26/22 09:04	08/29/22 21:47	1
PCB-1232	<0.0048		0.018	0.0048	mg/Kg	✳	08/26/22 09:04	08/29/22 21:47	1
PCB-1242	<0.0069		0.018	0.0069	mg/Kg	✳	08/26/22 09:04	08/29/22 21:47	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-220837-17

Date Collected: 08/11/22 13:20

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0085		0.018	0.0085	mg/Kg	☼	08/26/22 09:04	08/29/22 21:47	1
PCB-1254	<0.0060		0.018	0.0060	mg/Kg	☼	08/26/22 09:04	08/29/22 21:47	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	☼	08/26/22 09:04	08/29/22 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	90		49 - 129				08/26/22 09:04	08/29/22 21:47	1
<i>DCB Decachlorobiphenyl</i>	99		37 - 121				08/26/22 09:04	08/29/22 21:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		1.0	0.34	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1
Barium	51		2.0	0.23	mg/Kg	☼	08/23/22 14:41	08/24/22 15:45	2
Cadmium	0.12	J	0.20	0.036	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1
Chromium	7.7		1.0	0.50	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1
Lead	11		0.50	0.23	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	08/23/22 14:41	08/24/22 13:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.017	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 10:01	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (9-10)

Lab Sample ID: 500-220837-18

Date Collected: 08/11/22 13:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.4		16	9.4	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Bromobenzene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Bromochloromethane	<28		64	28	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Bromodichloromethane	<24		64	24	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Bromoform	<31		64	31	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Bromomethane	<51		190	51	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Carbon tetrachloride	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Chlorobenzene	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Chloroethane	<32		64	32	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Chloroform	<24		130	24	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Chloromethane	<21		64	21	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
2-Chlorotoluene	<20		64	20	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
4-Chlorotoluene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Dibromochloromethane	<31		64	31	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,2-Dibromoethane (EDB)	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Dibromomethane	<17		64	17	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,1-Dichloroethane	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,2-Dichloroethane	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,1-Dichloroethene	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,2-Dichloropropane	<28		64	28	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,3-Dichloropropane	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
2,2-Dichloropropane	<29		64	29	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,1-Dichloropropene	<19		64	19	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Ethylbenzene	<12		16	12	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Hexachlorobutadiene	<29		64	29	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Isopropylbenzene	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Isopropyl ether	<18		64	18	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Methylene Chloride	140	J B	320	100	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Naphthalene	<21		64	21	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
n-Butylbenzene	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
N-Propylbenzene	<27		64	27	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
p-Isopropyltoluene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
sec-Butylbenzene	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Styrene	<25		64	25	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
tert-Butylbenzene	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Tetrachloroethene	<24		64	24	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
Toluene	<9.5		16	9.5	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
trans-1,2-Dichloroethene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	✱	08/11/22 13:25	08/24/22 21:42	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (9-10)

Lab Sample ID: 500-220837-18

Date Collected: 08/11/22 13:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
Trichloroethene	<11		32	11	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
Trichlorofluoromethane	<28		64	28	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
Vinyl chloride	<17		64	17	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
Xylenes, Total	<14		32	14	ug/Kg	✳	08/11/22 13:25	08/24/22 21:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124				08/11/22 13:25	08/24/22 21:42	50
Dibromofluoromethane (Surr)	92		75 - 120				08/11/22 13:25	08/24/22 21:42	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 126				08/11/22 13:25	08/24/22 21:42	50
Toluene-d8 (Surr)	101		75 - 120				08/11/22 13:25	08/24/22 21:42	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.8		37	6.8	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Acenaphthylene	<5.0		37	5.0	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Anthracene	<6.3		37	6.3	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Benzo[a]anthracene	<5.1		37	5.1	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Benzo[a]pyrene	<7.3		37	7.3	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Benzo[b]fluoranthene	<8.1		37	8.1	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Chrysene	<10		37	10	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Dibenz(a,h)anthracene	<7.3		37	7.3	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Fluoranthene	9.2 J		37	7.0	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Fluorene	<5.3		37	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Indeno[1,2,3-cd]pyrene	<9.8		37	9.8	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Naphthalene	<5.8		37	5.8	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Phenanthrene	5.3 J		37	5.3	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Pyrene	9.9 J		37	7.5	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
1-Methylnaphthalene	<9.2		76	9.2	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
2-Methylnaphthalene	<6.9		76	6.9	ug/Kg	✳	08/25/22 07:09	08/29/22 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	63		37 - 147				08/25/22 07:09	08/29/22 23:33	1
Terphenyl-d14 (Surr)	106		42 - 157				08/25/22 07:09	08/29/22 23:33	1
2-Fluorobiphenyl (Surr)	81		43 - 145				08/25/22 07:09	08/29/22 23:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0073		0.018	0.0073	mg/Kg	✳	08/26/22 09:04	08/30/22 07:55	1
PCB-1221	<0.0073		0.018	0.0073	mg/Kg	✳	08/26/22 09:04	08/30/22 07:55	1
PCB-1232	<0.0050		0.018	0.0050	mg/Kg	✳	08/26/22 09:04	08/30/22 07:55	1
PCB-1242	<0.0072		0.018	0.0072	mg/Kg	✳	08/26/22 09:04	08/30/22 07:55	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (9-10)

Lab Sample ID: 500-220837-18

Date Collected: 08/11/22 13:25

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0088		0.018	0.0088	mg/Kg	☼	08/26/22 09:04	08/30/22 07:55	1
PCB-1254	<0.0063		0.018	0.0063	mg/Kg	☼	08/26/22 09:04	08/30/22 07:55	1
PCB-1260	<0.0070		0.018	0.0070	mg/Kg	☼	08/26/22 09:04	08/30/22 07:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		49 - 129				08/26/22 09:04	08/30/22 07:55	1
DCB Decachlorobiphenyl	125	S1+	37 - 121				08/26/22 09:04	08/30/22 07:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		1.1	0.37	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Barium	37		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Cadmium	0.10	J	0.21	0.038	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Chromium	14		1.1	0.53	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Lead	6.9		0.53	0.25	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1
Silver	0.17	J	0.53	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 13:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0059	mg/Kg	☼	08/23/22 14:50	08/24/22 10:03	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (16-17)

Lab Sample ID: 500-220837-19

Date Collected: 08/11/22 13:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		15	8.5	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Bromobenzene	<21		58	21	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Bromochloromethane	<25		58	25	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Bromodichloromethane	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Bromoform	<28		58	28	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Bromomethane	<46		170	46	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Carbon tetrachloride	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Chlorobenzene	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Chloroethane	<29		58	29	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Chloroform	<22		120	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Chloromethane	<19		58	19	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
2-Chlorotoluene	<18		58	18	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
4-Chlorotoluene	<20		58	20	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
cis-1,2-Dichloroethene	<24		58	24	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
cis-1,3-Dichloropropene	<24		58	24	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Dibromochloromethane	<28		58	28	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,2-Dibromo-3-Chloropropane	<120		290	120	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,2-Dibromoethane (EDB)	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Dibromomethane	<16		58	16	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,2-Dichlorobenzene	<19		58	19	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,3-Dichlorobenzene	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,4-Dichlorobenzene	<21		58	21	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Dichlorodifluoromethane	<39		170	39	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,1-Dichloroethane	<24		58	24	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,2-Dichloroethane	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,1-Dichloroethene	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,2-Dichloropropane	<25		58	25	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,3-Dichloropropane	<21		58	21	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
2,2-Dichloropropane	<26		58	26	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,1-Dichloropropene	<17		58	17	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Ethylbenzene	<11		15	11	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Hexachlorobutadiene	<26		58	26	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Isopropylbenzene	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Isopropyl ether	<16		58	16	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Methylene Chloride	120	J B	290	95	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Naphthalene	<19		58	19	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
n-Butylbenzene	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
N-Propylbenzene	<24		58	24	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
p-Isopropyltoluene	<21		58	21	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
sec-Butylbenzene	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Styrene	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
tert-Butylbenzene	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,1,1,2-Tetrachloroethane	<27		58	27	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
1,1,2,2-Tetrachloroethane	<23		58	23	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Tetrachloroethene	<22		58	22	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
Toluene	<8.6		15	8.6	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
trans-1,2-Dichloroethene	<20		58	20	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50
trans-1,3-Dichloropropene	<21		58	21	ug/Kg	✳	08/11/22 13:30	08/24/22 22:05	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (16-17)

Lab Sample ID: 500-220837-19

Date Collected: 08/11/22 13:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<27		58	27	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,2,4-Trichlorobenzene	<20		58	20	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,1,1-Trichloroethane	<22		58	22	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,1,2-Trichloroethane	<20		58	20	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
Trichloroethene	<9.5		29	9.5	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
Trichlorofluoromethane	<25		58	25	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,2,3-Trichloropropane	<24		120	24	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
Vinyl chloride	<15		58	15	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50
Xylenes, Total	28	J	29	13	ug/Kg	✱	08/11/22 13:30	08/24/22 22:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124	08/11/22 13:30	08/24/22 22:05	50
Dibromofluoromethane (Surr)	95		75 - 120	08/11/22 13:30	08/24/22 22:05	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126	08/11/22 13:30	08/24/22 22:05	50
Toluene-d8 (Surr)	100		75 - 120	08/11/22 13:30	08/24/22 22:05	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.5		36	6.5	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Acenaphthylene	<4.7		36	4.7	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Anthracene	<6.0		36	6.0	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Benzo[a]anthracene	<4.8		36	4.8	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Benzo[b]fluoranthene	<7.8		36	7.8	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Chrysene	<9.8		36	9.8	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Fluoranthene	<6.7		36	6.7	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Fluorene	<5.1		36	5.1	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Indeno[1,2,3-cd]pyrene	<9.3		36	9.3	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Naphthalene	<5.5		36	5.5	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Phenanthrene	<5.0		36	5.0	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
Pyrene	<7.1		36	7.1	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
1-Methylnaphthalene	<8.8		73	8.8	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1
2-Methylnaphthalene	<6.6		73	6.6	ug/Kg	✱	08/25/22 07:09	08/29/22 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		37 - 147	08/25/22 07:09	08/29/22 23:54	1
Terphenyl-d14 (Surr)	104		42 - 157	08/25/22 07:09	08/29/22 23:54	1
2-Fluorobiphenyl (Surr)	87		43 - 145	08/25/22 07:09	08/29/22 23:54	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0068		0.017	0.0068	mg/Kg	✱	08/26/22 09:04	08/30/22 08:10	1
PCB-1221	<0.0068		0.017	0.0068	mg/Kg	✱	08/26/22 09:04	08/30/22 08:10	1
PCB-1232	<0.0047		0.017	0.0047	mg/Kg	✱	08/26/22 09:04	08/30/22 08:10	1
PCB-1242	<0.0067		0.017	0.0067	mg/Kg	✱	08/26/22 09:04	08/30/22 08:10	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (16-17)

Lab Sample ID: 500-220837-19

Date Collected: 08/11/22 13:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0082		0.017	0.0082	mg/Kg	☼	08/26/22 09:04	08/30/22 08:10	1
PCB-1254	<0.0059		0.017	0.0059	mg/Kg	☼	08/26/22 09:04	08/30/22 08:10	1
PCB-1260	<0.0065		0.017	0.0065	mg/Kg	☼	08/26/22 09:04	08/30/22 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		49 - 129				08/26/22 09:04	08/30/22 08:10	1
DCB Decachlorobiphenyl	94		37 - 121				08/26/22 09:04	08/30/22 08:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.1	0.36	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Barium	23		1.1	0.12	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Cadmium	0.11	J	0.21	0.038	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Chromium	9.9		1.1	0.52	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Lead	8.7		0.53	0.24	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	08/23/22 14:41	08/24/22 13:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 10:09	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (0-5)

Lab Sample ID: 500-220837-20

Date Collected: 08/11/22 13:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.4		14	8.4	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Bromobenzene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Bromochloromethane	<25		58	25	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Bromodichloromethane	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Bromoform	<28		58	28	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Bromomethane	<46		170	46	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Carbon tetrachloride	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Chlorobenzene	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Chloroethane	<29		58	29	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Chloroform	<21		120	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Chloromethane	<19		58	19	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
2-Chlorotoluene	<18		58	18	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
4-Chlorotoluene	<20		58	20	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
cis-1,2-Dichloroethene	<24		58	24	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
cis-1,3-Dichloropropene	<24		58	24	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Dibromochloromethane	<28		58	28	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2-Dibromo-3-Chloropropane	<120		290	120	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2-Dibromoethane (EDB)	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Dibromomethane	<16		58	16	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2-Dichlorobenzene	<19		58	19	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,3-Dichlorobenzene	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,4-Dichlorobenzene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Dichlorodifluoromethane	<39		170	39	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1-Dichloroethane	<24		58	24	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2-Dichloroethane	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1-Dichloroethene	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2-Dichloropropane	<25		58	25	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,3-Dichloropropane	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
2,2-Dichloropropane	<26		58	26	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1-Dichloropropene	<17		58	17	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Ethylbenzene	<11		14	11	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Hexachlorobutadiene	<26		58	26	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Isopropylbenzene	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Isopropyl ether	<16		58	16	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Methylene Chloride	<94		290	94	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Naphthalene	280		58	19	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
n-Butylbenzene	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
N-Propylbenzene	<24		58	24	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
p-Isopropyltoluene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
sec-Butylbenzene	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Styrene	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
tert-Butylbenzene	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1,1,2-Tetrachloroethane	<27		58	27	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1,2,2-Tetrachloroethane	<23		58	23	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Tetrachloroethene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Toluene	<8.5		14	8.5	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
trans-1,2-Dichloroethene	<20		58	20	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
trans-1,3-Dichloropropene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (0-5)

Lab Sample ID: 500-220837-20

Date Collected: 08/11/22 13:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<27		58	27	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2,4-Trichlorobenzene	<20		58	20	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1,1-Trichloroethane	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,1,2-Trichloroethane	<20		58	20	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Trichloroethene	<9.5		29	9.5	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Trichlorofluoromethane	<25		58	25	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2,3-Trichloropropane	<24		120	24	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Vinyl chloride	<15		58	15	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Xylenes, Total	<13		29	13	ug/Kg	✱	08/11/22 13:35	08/25/22 11:57	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124				08/11/22 13:35	08/25/22 11:57	50
Dibromofluoromethane (Surr)	99		75 - 120				08/11/22 13:35	08/25/22 11:57	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				08/11/22 13:35	08/25/22 11:57	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 13:35	08/25/22 11:57	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7500		710	130	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Acenaphthylene	190	J	710	94	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Anthracene	30000		710	120	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Benzo[a]anthracene	32000		710	96	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Benzo[a]pyrene	26000		710	140	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Benzo[b]fluoranthene	33000		710	150	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Benzo[g,h,i]perylene	7500		710	230	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Benzo[k]fluoranthene	15000		710	210	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Chrysene	30000		710	190	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Dibenz(a,h)anthracene	2900		710	140	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Fluorene	12000		710	100	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Indeno[1,2,3-cd]pyrene	9600		710	180	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Naphthalene	1600		710	110	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
1-Methylnaphthalene	1600		1400	170	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
2-Methylnaphthalene	2000		1400	130	ug/Kg	✱	08/25/22 07:09	08/30/22 00:15	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	D	37 - 147				08/25/22 07:09	08/30/22 00:15	20
Terphenyl-d14 (Surr)	0	D	42 - 157				08/25/22 07:09	08/30/22 00:15	20
2-Fluorobiphenyl (Surr)	0	D	43 - 145				08/25/22 07:09	08/30/22 00:15	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	80000		7100	1300	ug/Kg	✱	08/25/22 07:09	08/30/22 12:19	200
Phenanthrene	75000		7100	990	ug/Kg	✱	08/25/22 07:09	08/30/22 12:19	200
Pyrene	62000		7100	1400	ug/Kg	✱	08/25/22 07:09	08/30/22 12:19	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	D	37 - 147				08/25/22 07:09	08/30/22 12:19	200
Terphenyl-d14 (Surr)	0	D	42 - 157				08/25/22 07:09	08/30/22 12:19	200
2-Fluorobiphenyl (Surr)	0	D	43 - 145				08/25/22 07:09	08/30/22 12:19	200

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (0-5)

Lab Sample ID: 500-220837-20

Date Collected: 08/11/22 13:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 92.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0067		0.017	0.0067	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1221	<0.0067		0.017	0.0067	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1232	<0.0046		0.017	0.0046	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1242	<0.0067		0.017	0.0067	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1248	<0.0081		0.017	0.0081	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1254	<0.0058		0.017	0.0058	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1
PCB-1260	<0.0065		0.017	0.0065	mg/Kg	✱	08/26/22 09:04	08/30/22 08:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		49 - 129	08/26/22 09:04	08/30/22 08:25	1
DCB Decachlorobiphenyl	83		37 - 121	08/26/22 09:04	08/30/22 08:25	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.0	0.35	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1
Barium	32		2.1	0.24	mg/Kg	✱	08/23/22 14:41	08/24/22 15:48	2
Cadmium	0.11	J	0.21	0.037	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1
Chromium	9.5		1.0	0.51	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1
Lead	7.6		0.52	0.24	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1
Selenium	<0.61		1.0	0.61	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1
Silver	0.17	J	0.52	0.13	mg/Kg	✱	08/23/22 14:41	08/24/22 14:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0057	mg/Kg	✱	08/23/22 14:50	08/24/22 10:11	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (11-12)

Lab Sample ID: 500-220837-21

Date Collected: 08/11/22 14:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.0		15	9.0	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Bromobenzene	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Bromochloromethane	<27		62	27	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Bromodichloromethane	<23		62	23	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Bromoform	<30		62	30	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Bromomethane	<49		190	49	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Carbon tetrachloride	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Chlorobenzene	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Chloroethane	<31		62	31	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Chloroform	<23		120	23	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Chloromethane	<20		62	20	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
2-Chlorotoluene	<19		62	19	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
4-Chlorotoluene	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Dibromochloromethane	<30		62	30	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,2-Dibromoethane (EDB)	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Dibromomethane	<17		62	17	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Dichlorodifluoromethane	<42	*	190	42	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,1-Dichloroethane	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,2-Dichloroethane	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,1-Dichloroethene	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,2-Dichloropropane	<27		62	27	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,3-Dichloropropane	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
2,2-Dichloropropane	<28		62	28	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,1-Dichloropropene	<18		62	18	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Ethylbenzene	<11		15	11	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Hexachlorobutadiene	<28		62	28	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Isopropylbenzene	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Isopropyl ether	<17		62	17	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Methylene Chloride	130	J B	310	100	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Naphthalene	26	J B	62	21	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
n-Butylbenzene	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
N-Propylbenzene	<26		62	26	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
p-Isopropyltoluene	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
sec-Butylbenzene	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Styrene	<24		62	24	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
tert-Butylbenzene	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Tetrachloroethene	<23		62	23	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
Toluene	<9.1		15	9.1	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	✳	08/11/22 14:00	08/24/22 22:50	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (11-12)

Lab Sample ID: 500-220837-21

Date Collected: 08/11/22 14:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
Trichloroethene	<10		31	10	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
Trichlorofluoromethane	<27		62	27	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
Vinyl chloride	<16		62	16	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
Xylenes, Total	<14		31	14	ug/Kg	✱	08/11/22 14:00	08/24/22 22:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124				08/11/22 14:00	08/24/22 22:50	50
Dibromofluoromethane (Surr)	94		75 - 120				08/11/22 14:00	08/24/22 22:50	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126				08/11/22 14:00	08/24/22 22:50	50
Toluene-d8 (Surr)	101		75 - 120				08/11/22 14:00	08/24/22 22:50	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.5		36	6.5	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Anthracene	7.8 J		36	6.1	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Benzo[a]anthracene	16 J		36	4.9	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Benzo[a]pyrene	12 J		36	7.0	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Benzo[b]fluoranthene	16 J		36	7.8	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Chrysene	16 J		36	9.9	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Fluoranthene	27 J		36	6.7	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Fluorene	<5.1		36	5.1	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Naphthalene	<5.6		36	5.6	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Phenanthrene	17 J		36	5.1	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Pyrene	27 J		36	7.2	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	✱	08/24/22 07:02	08/26/22 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 147				08/24/22 07:02	08/26/22 21:48	1
Terphenyl-d14 (Surr)	104		42 - 157				08/24/22 07:02	08/26/22 21:48	1
2-Fluorobiphenyl (Surr)	80		43 - 145				08/24/22 07:02	08/26/22 21:48	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.011		0.027	0.011	mg/Kg	✱	08/26/22 14:08	08/29/22 15:00	1
PCB-1221	<0.011		0.027	0.011	mg/Kg	✱	08/26/22 14:08	08/29/22 15:00	1
PCB-1232	<0.0074		0.027	0.0074	mg/Kg	✱	08/26/22 14:08	08/29/22 15:00	1
PCB-1242	<0.011		0.027	0.011	mg/Kg	✱	08/26/22 14:08	08/29/22 15:00	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (11-12)

Lab Sample ID: 500-220837-21

Date Collected: 08/11/22 14:00

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 89.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.013		0.027	0.013	mg/Kg	☼	08/26/22 14:08	08/29/22 15:00	1
PCB-1254	<0.0093		0.027	0.0093	mg/Kg	☼	08/26/22 14:08	08/29/22 15:00	1
PCB-1260	<0.010		0.027	0.010	mg/Kg	☼	08/26/22 14:08	08/29/22 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		49 - 129				08/26/22 14:08	08/29/22 15:00	1
DCB Decachlorobiphenyl	120		37 - 121				08/26/22 14:08	08/29/22 15:00	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.0	0.35	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Barium	24		1.0	0.12	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Cadmium	0.15	J	0.21	0.037	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Chromium	9.6		1.0	0.51	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Lead	6.8		0.52	0.24	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	08/23/22 14:50	08/24/22 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	B	0.017	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 10:16	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (22-23)

Lab Sample ID: 500-220837-22

Date Collected: 08/11/22 14:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7		17	9.7	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Bromobenzene	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Bromochloromethane	<29		67	29	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Bromodichloromethane	<25		67	25	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Bromoform	<32		67	32	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Bromomethane	<53		200	53	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Carbon tetrachloride	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Chlorobenzene	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Chloroethane	<34		67	34	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Chloroform	<25		130	25	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Chloromethane	<21		67	21	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
2-Chlorotoluene	<21		67	21	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
4-Chlorotoluene	<23		67	23	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Dibromochloromethane	<33		67	33	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2-Dibromoethane (EDB)	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Dibromomethane	<18		67	18	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Dichlorodifluoromethane	<45 *		200	45	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1-Dichloroethane	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2-Dichloroethane	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1-Dichloroethene	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2-Dichloropropane	<29		67	29	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,3-Dichloropropane	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
2,2-Dichloropropane	<30		67	30	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1-Dichloropropene	<20		67	20	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Ethylbenzene	<12		17	12	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Hexachlorobutadiene	<30		67	30	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Isopropylbenzene	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Isopropyl ether	<18		67	18	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Methylene Chloride	<110		330	110	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Naphthalene	<22		67	22	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
n-Butylbenzene	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
N-Propylbenzene	<28		67	28	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
p-Isopropyltoluene	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
sec-Butylbenzene	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Styrene	<26		67	26	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
tert-Butylbenzene	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Tetrachloroethene	<25		67	25	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Toluene	<9.8		17	9.8	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (22-23)

Lab Sample ID: 500-220837-22

Date Collected: 08/11/22 14:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,1,2-Trichloroethane	<23		67	23	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Trichloroethene	<11		33	11	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Trichlorofluoromethane	<29		67	29	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Vinyl chloride	<17		67	17	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Xylenes, Total	<15		33	15	ug/Kg	✱	08/11/22 14:05	08/24/22 23:14	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124				08/11/22 14:05	08/24/22 23:14	50
Dibromofluoromethane (Surr)	97		75 - 120				08/11/22 14:05	08/24/22 23:14	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 126				08/11/22 14:05	08/24/22 23:14	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 14:05	08/24/22 23:14	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.9		38	6.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Anthracene	<6.4		38	6.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Benzo[a]anthracene	<5.2		38	5.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Benzo[a]pyrene	<7.5		38	7.5	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Benzo[b]fluoranthene	<8.3		38	8.3	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Chrysene	<11		38	11	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Dibenz(a,h)anthracene	<7.5		38	7.5	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Fluoranthene	<7.2		38	7.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Fluorene	<5.4		38	5.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Indeno[1,2,3-cd]pyrene	<10		38	10	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Naphthalene	<5.9		38	5.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Phenanthrene	6.6	J	38	5.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Pyrene	11	J	38	7.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
1-Methylnaphthalene	<9.4		78	9.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
2-Methylnaphthalene	<7.1		78	7.1	ug/Kg	✱	08/24/22 07:02	08/26/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	58		37 - 147				08/24/22 07:02	08/26/22 22:09	1
Terphenyl-d14 (Surr)	110		42 - 157				08/24/22 07:02	08/26/22 22:09	1
2-Fluorobiphenyl (Surr)	65		43 - 145				08/24/22 07:02	08/26/22 22:09	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 14:08	08/29/22 15:15	1
PCB-1221	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 14:08	08/29/22 15:15	1
PCB-1232	<0.0050		0.019	0.0050	mg/Kg	✱	08/26/22 14:08	08/29/22 15:15	1
PCB-1242	<0.0072		0.019	0.0072	mg/Kg	✱	08/26/22 14:08	08/29/22 15:15	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (22-23)

Lab Sample ID: 500-220837-22

Date Collected: 08/11/22 14:05

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 85.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0088		0.019	0.0088	mg/Kg	☼	08/26/22 14:08	08/29/22 15:15	1
PCB-1254	<0.0063		0.019	0.0063	mg/Kg	☼	08/26/22 14:08	08/29/22 15:15	1
PCB-1260	<0.0070		0.019	0.0070	mg/Kg	☼	08/26/22 14:08	08/29/22 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		49 - 129				08/26/22 14:08	08/29/22 15:15	1
DCB Decachlorobiphenyl	136	S1+	37 - 121				08/26/22 14:08	08/29/22 15:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.1	0.38	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Barium	12		1.1	0.13	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Cadmium	0.25		0.22	0.040	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Chromium	4.5		1.1	0.55	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Lead	4.2		0.55	0.26	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	08/23/22 14:50	08/24/22 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J B	0.019	0.0062	mg/Kg	☼	08/23/22 14:50	08/24/22 10:19	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (2-4)

Lab Sample ID: 500-220837-23

Date Collected: 08/11/22 14:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		18	11	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Bromobenzene	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Bromochloromethane	<31		72	31	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Bromodichloromethane	<27		72	27	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Bromoform	<35		72	35	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Bromomethane	<57		220	57	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Carbon tetrachloride	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Chlorobenzene	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Chloroethane	<36		72	36	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Chloroform	<27		140	27	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Chloromethane	<23		72	23	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
2-Chlorotoluene	<23		72	23	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
4-Chlorotoluene	<25		72	25	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Dibromochloromethane	<35		72	35	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2-Dibromoethane (EDB)	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Dibromomethane	<19		72	19	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Dichlorodifluoromethane	<49	*	220	49	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1-Dichloroethane	<30		72	30	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2-Dichloroethane	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1-Dichloroethene	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2-Dichloropropane	<31		72	31	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,3-Dichloropropane	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
2,2-Dichloropropane	<32		72	32	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1-Dichloropropene	<22		72	22	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Ethylbenzene	<13		18	13	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Hexachlorobutadiene	<32		72	32	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Isopropylbenzene	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Isopropyl ether	<20		72	20	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Methylene Chloride	140	J B	360	120	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Naphthalene	<24		72	24	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
n-Butylbenzene	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
N-Propylbenzene	<30		72	30	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
p-Isopropyltoluene	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
sec-Butylbenzene	<29		72	29	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Styrene	<28		72	28	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
tert-Butylbenzene	<29		72	29	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Tetrachloroethene	<27		72	27	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Toluene	<11		18	11	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (2-4)

Lab Sample ID: 500-220837-23

Date Collected: 08/11/22 14:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Trichloroethene	<12		36	12	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Trichlorofluoromethane	<31		72	31	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Vinyl chloride	<19		72	19	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Xylenes, Total	<16		36	16	ug/Kg	✱	08/11/22 14:30	08/24/22 23:37	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124				08/11/22 14:30	08/24/22 23:37	50
Dibromofluoromethane (Surr)	94		75 - 120				08/11/22 14:30	08/24/22 23:37	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126				08/11/22 14:30	08/24/22 23:37	50
Toluene-d8 (Surr)	101		75 - 120				08/11/22 14:30	08/24/22 23:37	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<7.3		40	7.3	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Acenaphthylene	<5.3		40	5.3	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Anthracene	<6.7		40	6.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Benzo[a]anthracene	8.9	J	40	5.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Benzo[a]pyrene	<7.8		40	7.8	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Benzo[b]fluoranthene	11	J	40	8.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Benzo[g,h,i]perylene	<13		40	13	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Benzo[k]fluoranthene	<12		40	12	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Chrysene	<11		40	11	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Dibenz(a,h)anthracene	<7.8		40	7.8	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Fluoranthene	16	J	40	7.5	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Fluorene	<5.7		40	5.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Indeno[1,2,3-cd]pyrene	<10		40	10	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Naphthalene	<6.2		40	6.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Phenanthrene	9.4	J	40	5.6	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Pyrene	15	J	40	8.0	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
1-Methylnaphthalene	<9.9		81	9.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
2-Methylnaphthalene	<7.4		81	7.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	53		37 - 147				08/24/22 07:02	08/26/22 22:31	1
Terphenyl-d14 (Surr)	107		42 - 157				08/24/22 07:02	08/26/22 22:31	1
2-Fluorobiphenyl (Surr)	62		43 - 145				08/24/22 07:02	08/26/22 22:31	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0079		0.020	0.0079	mg/Kg	✱	08/26/22 14:08	08/29/22 15:29	1
PCB-1221	<0.0079		0.020	0.0079	mg/Kg	✱	08/26/22 14:08	08/29/22 15:29	1
PCB-1232	<0.0055		0.020	0.0055	mg/Kg	✱	08/26/22 14:08	08/29/22 15:29	1
PCB-1242	<0.0078		0.020	0.0078	mg/Kg	✱	08/26/22 14:08	08/29/22 15:29	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (2-4)

Lab Sample ID: 500-220837-23

Date Collected: 08/11/22 14:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 82.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0096		0.020	0.0096	mg/Kg	☼	08/26/22 14:08	08/29/22 15:29	1
PCB-1254	<0.0068		0.020	0.0068	mg/Kg	☼	08/26/22 14:08	08/29/22 15:29	1
PCB-1260	<0.0076		0.020	0.0076	mg/Kg	☼	08/26/22 14:08	08/29/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		49 - 129				08/26/22 14:08	08/29/22 15:29	1
DCB Decachlorobiphenyl	128	S1+	37 - 121				08/26/22 14:08	08/29/22 15:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		1.2	0.41	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Barium	130		1.2	0.14	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Cadmium	0.087	J	0.24	0.043	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Chromium	19		1.2	0.59	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Lead	89		0.60	0.28	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Selenium	<0.71		1.2	0.71	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1
Silver	0.29	J	0.60	0.15	mg/Kg	☼	08/23/22 14:50	08/24/22 14:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.020	0.0065	mg/Kg	☼	08/23/22 14:50	08/24/22 10:21	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (6-7)

Lab Sample ID: 500-220837-24

Date Collected: 08/11/22 14:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.3		16	9.3	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Bromobenzene	<23		64	23	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Bromochloromethane	<27		64	27	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Bromodichloromethane	<24		64	24	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Bromoform	<31		64	31	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Bromomethane	<51		190	51	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Carbon tetrachloride	<24		64	24	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Chlorobenzene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Chloroethane	<32		64	32	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Chloroform	<24		130	24	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Chloromethane	<20		64	20	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
2-Chlorotoluene	<20		64	20	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
4-Chlorotoluene	<22		64	22	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
cis-1,3-Dichloropropene	<26		64	26	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Dibromochloromethane	<31		64	31	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,2-Dibromoethane (EDB)	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Dibromomethane	<17		64	17	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,3-Dichlorobenzene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Dichlorodifluoromethane	<43	*	190	43	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,1-Dichloroethane	<26		64	26	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,2-Dichloroethane	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,1-Dichloroethene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,2-Dichloropropane	<27		64	27	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,3-Dichloropropane	<23		64	23	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
2,2-Dichloropropane	<28		64	28	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,1-Dichloropropene	<19		64	19	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Ethylbenzene	<12		16	12	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Hexachlorobutadiene	<28		64	28	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Isopropylbenzene	<24		64	24	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Isopropyl ether	<18		64	18	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Methylene Chloride	120	J B	320	100	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Naphthalene	<21		64	21	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
n-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
N-Propylbenzene	<26		64	26	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
p-Isopropyltoluene	<23		64	23	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
sec-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Styrene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
tert-Butylbenzene	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,1,1,2-Tetrachloroethane	<29		64	29	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Tetrachloroethene	<24		64	24	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
Toluene	<9.4		16	9.4	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	✳	08/11/22 14:35	08/25/22 00:00	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (6-7)

Lab Sample ID: 500-220837-24

Date Collected: 08/11/22 14:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
Trichloroethene	<10		32	10	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
Trichlorofluoromethane	<27		64	27	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
Vinyl chloride	<17		64	17	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
Xylenes, Total	<14		32	14	ug/Kg	✱	08/11/22 14:35	08/25/22 00:00	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124				08/11/22 14:35	08/25/22 00:00	50
Dibromofluoromethane (Surr)	96		75 - 120				08/11/22 14:35	08/25/22 00:00	50
1,2-Dichloroethane-d4 (Surr)	95		75 - 126				08/11/22 14:35	08/25/22 00:00	50
Toluene-d8 (Surr)	99		75 - 120				08/11/22 14:35	08/25/22 00:00	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.7		37	6.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Anthracene	<6.2		37	6.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Benzo[a]pyrene	<7.2		37	7.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Benzo[b]fluoranthene	<8.0		37	8.0	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Chrysene	<10		37	10	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Fluoranthene	<6.9		37	6.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Fluorene	<5.2		37	5.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Naphthalene	<5.7		37	5.7	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Phenanthrene	<5.2		37	5.2	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Pyrene	<7.4		37	7.4	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	✱	08/24/22 07:02	08/26/22 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		37 - 147				08/24/22 07:02	08/26/22 22:52	1
Terphenyl-d14 (Surr)	124		42 - 157				08/24/22 07:02	08/26/22 22:52	1
2-Fluorobiphenyl (Surr)	71		43 - 145				08/24/22 07:02	08/26/22 22:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 14:08	08/29/22 15:44	1
PCB-1221	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 14:08	08/29/22 15:44	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✱	08/26/22 14:08	08/29/22 15:44	1
PCB-1242	<0.0073		0.019	0.0073	mg/Kg	✱	08/26/22 14:08	08/29/22 15:44	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (6-7)

Lab Sample ID: 500-220837-24

Date Collected: 08/11/22 14:35

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 88.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0089		0.019	0.0089	mg/Kg	☼	08/26/22 14:08	08/29/22 15:44	1
PCB-1254	<0.0063		0.019	0.0063	mg/Kg	☼	08/26/22 14:08	08/29/22 15:44	1
PCB-1260	<0.0070		0.019	0.0070	mg/Kg	☼	08/26/22 14:08	08/29/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129				08/26/22 14:08	08/29/22 15:44	1
DCB Decachlorobiphenyl	132	S1+	37 - 121				08/26/22 14:08	08/29/22 15:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.0	0.35	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Barium	20		1.0	0.12	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Cadmium	0.070	J	0.21	0.037	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Chromium	9.5		1.0	0.51	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Lead	5.6		0.52	0.24	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	08/23/22 14:50	08/24/22 14:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	B	0.018	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 10:22	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (22-23)

Lab Sample ID: 500-220837-25

Date Collected: 08/11/22 14:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Bromobenzene	<21		60	21	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Bromochloromethane	<26		60	26	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Bromodichloromethane	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Bromoform	<29		60	29	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Bromomethane	<48		180	48	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Carbon tetrachloride	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Chlorobenzene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Chloroethane	<30		60	30	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Chloroform	<22		120	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Chloromethane	<19		60	19	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
2-Chlorotoluene	<19		60	19	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
4-Chlorotoluene	<21		60	21	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Dibromochloromethane	<29		60	29	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2-Dibromoethane (EDB)	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Dibromomethane	<16		60	16	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Dichlorodifluoromethane	<41	*	180	41	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1-Dichloroethane	<25		60	25	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2-Dichloroethane	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1-Dichloroethene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2-Dichloropropane	<26		60	26	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,3-Dichloropropane	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
2,2-Dichloropropane	<27		60	27	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1-Dichloropropene	<18		60	18	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Ethylbenzene	<11		15	11	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Hexachlorobutadiene	<27		60	27	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Isopropylbenzene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Isopropyl ether	<17		60	17	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Methylene Chloride	100	J B	300	98	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Naphthalene	<20		60	20	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
n-Butylbenzene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
N-Propylbenzene	<25		60	25	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
p-Isopropyltoluene	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
sec-Butylbenzene	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Styrene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
tert-Butylbenzene	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Tetrachloroethene	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Toluene	<8.8		15	8.8	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (22-23)

Lab Sample ID: 500-220837-25

Date Collected: 08/11/22 14:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Trichloroethene	<9.9		30	9.9	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Trichlorofluoromethane	<26		60	26	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Vinyl chloride	<16		60	16	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Xylenes, Total	<13		30	13	ug/Kg	✳	08/11/22 14:40	08/25/22 00:23	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124				08/11/22 14:40	08/25/22 00:23	50
Dibromofluoromethane (Surr)	94		75 - 120				08/11/22 14:40	08/25/22 00:23	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 126				08/11/22 14:40	08/25/22 00:23	50
Toluene-d8 (Surr)	100		75 - 120				08/11/22 14:40	08/25/22 00:23	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.5		36	6.5	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Anthracene	<6.0		36	6.0	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Benzo[b]fluoranthene	<7.8		36	7.8	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Chrysene	12 J		36	9.9	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Fluoranthene	<6.7		36	6.7	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Fluorene	<5.1		36	5.1	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Naphthalene	<5.6		36	5.6	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Phenanthrene	10 J		36	5.0	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Pyrene	<7.2		36	7.2	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
1-Methylnaphthalene	<8.8		73	8.8	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
2-Methylnaphthalene	11 J		73	6.7	ug/Kg	✳	08/24/22 07:02	08/26/22 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		37 - 147				08/24/22 07:02	08/26/22 23:13	1
Terphenyl-d14 (Surr)	104		42 - 157				08/24/22 07:02	08/26/22 23:13	1
2-Fluorobiphenyl (Surr)	95		43 - 145				08/24/22 07:02	08/26/22 23:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0069		0.018	0.0069	mg/Kg	✳	08/26/22 14:08	08/29/22 15:59	1
PCB-1221	<0.0069		0.018	0.0069	mg/Kg	✳	08/26/22 14:08	08/29/22 15:59	1
PCB-1232	<0.0048		0.018	0.0048	mg/Kg	✳	08/26/22 14:08	08/29/22 15:59	1
PCB-1242	<0.0069		0.018	0.0069	mg/Kg	✳	08/26/22 14:08	08/29/22 15:59	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (22-23)

Lab Sample ID: 500-220837-25

Date Collected: 08/11/22 14:40

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 91.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0084		0.018	0.0084	mg/Kg	☼	08/26/22 14:08	08/29/22 15:59	1
PCB-1254	<0.0060		0.018	0.0060	mg/Kg	☼	08/26/22 14:08	08/29/22 15:59	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	☼	08/26/22 14:08	08/29/22 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		49 - 129				08/26/22 14:08	08/29/22 15:59	1
DCB Decachlorobiphenyl	121		37 - 121				08/26/22 14:08	08/29/22 15:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1	0.36	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Barium	19		1.1	0.12	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Cadmium	0.13	J	0.21	0.038	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Chromium	8.1		1.1	0.53	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Lead	6.5		0.53	0.25	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1
Silver	0.14	J	0.53	0.14	mg/Kg	☼	08/23/22 14:50	08/24/22 14:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	B	0.018	0.0058	mg/Kg	☼	08/23/22 14:50	08/24/22 10:24	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Protocol B

Lab Sample ID: 500-220837-26

Date Collected: 08/11/22 15:30

Matrix: Solid

Date Received: 08/12/22 17:45

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
Chloroform	<0.020		0.040	0.020	mg/L			08/25/22 12:20	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			08/25/22 12:20	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/25/22 12:20	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		72 - 124		08/25/22 12:20	20
Dibromofluoromethane (Surr)	104		75 - 120		08/25/22 12:20	20
1,2-Dichloroethane-d4 (Surr)	117		75 - 126		08/25/22 12:20	20
Toluene-d8 (Surr)	102		75 - 120		08/25/22 12:20	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.10		0.10	0.10	mg/L		08/24/22 11:30	08/26/22 17:54	5
2,4-Dinitrotoluene	<0.050		0.050	0.050	mg/L		08/24/22 11:30	08/26/22 17:54	5
Hexachlorobenzene	<0.025		0.025	0.025	mg/L		08/24/22 11:30	08/26/22 17:54	5
Hexachlorobutadiene	<0.25	*3	0.25	0.25	mg/L		08/24/22 11:30	08/26/22 17:54	5
Hexachloroethane	<0.25		0.25	0.25	mg/L		08/24/22 11:30	08/26/22 17:54	5
2-Methylphenol	<0.10		0.10	0.10	mg/L		08/24/22 11:30	08/26/22 17:54	5
3 & 4 Methylphenol	<0.10		0.10	0.10	mg/L		08/24/22 11:30	08/26/22 17:54	5
Nitrobenzene	<0.050	*3	0.050	0.050	mg/L		08/24/22 11:30	08/26/22 17:54	5
Pentachlorophenol	<1.0		1.0	1.0	mg/L		08/24/22 11:30	08/26/22 17:54	5
Pyridine	<1.0		1.0	1.0	mg/L		08/24/22 11:30	08/26/22 17:54	5
2,4,5-Trichlorophenol	<0.50		0.50	0.50	mg/L		08/24/22 11:30	08/26/22 17:54	5
2,4,6-Trichlorophenol	<0.25		0.25	0.25	mg/L		08/24/22 11:30	08/26/22 17:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		34 - 110	08/24/22 11:30	08/26/22 17:54	5
2-Fluorophenol (Surr)	36		27 - 110	08/24/22 11:30	08/26/22 17:54	5
Nitrobenzene-d5 (Surr)	81	*3	36 - 120	08/24/22 11:30	08/26/22 17:54	5
Phenol-d5 (Surr)	19	S1-	20 - 100	08/24/22 11:30	08/26/22 17:54	5
Terphenyl-d14 (Surr)	96		40 - 145	08/24/22 11:30	08/26/22 17:54	5
2,4,6-Tribromophenol (Surr)	93		40 - 145	08/24/22 11:30	08/26/22 17:54	5

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		08/25/22 08:19	08/26/22 06:54	1
Barium	0.38	J	0.50	0.050	mg/L		08/25/22 08:19	08/26/22 06:54	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		08/25/22 08:19	08/26/22 06:54	1
Chromium	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 06:54	1
Copper	0.011	J	0.025	0.010	mg/L		08/25/22 08:19	08/26/22 06:54	1
Lead	0.012	J	0.050	0.0075	mg/L		08/25/22 08:19	08/26/22 11:50	1
Nickel	0.056		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 11:50	1
Selenium	<0.020		0.050	0.020	mg/L		08/25/22 08:19	08/26/22 06:54	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Protocol B

Lab Sample ID: 500-220837-26

Date Collected: 08/11/22 15:30

Matrix: Solid

Date Received: 08/12/22 17:45

Method: 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 06:54	1
Zinc	0.061	J	0.10	0.020	mg/L		08/25/22 08:19	08/26/22 11:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/24/22 15:20	08/25/22 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.6		9.8	4.6	mg/Kg		08/29/22 17:36	08/30/22 13:39	1
pH	8.6	HF	0.2	0.2	SU			08/16/22 11:18	1
Free Liquid	pass				No Unit			08/26/22 16:06	1
Total Chlorine	<950		950	950	mg/Kg		08/17/22 10:46	08/17/22 12:45	1
Flashpoint	>200		99.0	99.0	Degrees F			08/29/22 13:41	1
Specific Gravity	2.2986				NONE			08/30/22 14:45	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Protocol B

Lab Sample ID: 500-220837-26

Date Collected: 08/11/22 15:30

Matrix: Solid

Date Received: 08/12/22 17:45

Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0068		0.017	0.0068	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1221	<0.0068		0.017	0.0068	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1232	<0.0047		0.017	0.0047	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1242	<0.0068		0.017	0.0068	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1248	0.015	J	0.017	0.0083	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1254	<0.0059		0.017	0.0059	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1
PCB-1260	<0.0065		0.017	0.0065	mg/Kg	☼	08/26/22 14:08	08/29/22 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	92		49 - 129	08/26/22 14:08	08/29/22 17:24	1
<i>DCB Decachlorobiphenyl</i>	122	S1+	37 - 121	08/26/22 14:08	08/29/22 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13	F1	0.25	0.13	mg/Kg	☼	08/23/22 13:54	08/25/22 17:41	1
Phenolics, Total Recoverable	<0.40		0.48	0.40	mg/Kg	☼	08/26/22 12:15	08/26/22 14:10	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-220837-27

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 17:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Bromobenzene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Bromochloromethane	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Bromodichloromethane	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Bromoform	<24		50	24	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Bromomethane	<40		150	40	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Chlorobenzene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Chloroethane	<25		50	25	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Chloroform	<19		100	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Chloromethane	<16		50	16	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Dibromochloromethane	<24		50	24	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2-Dibromoethane (EDB)	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Dibromomethane	<14		50	14	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Dichlorodifluoromethane	<34	*	150	34	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Isopropylbenzene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Isopropyl ether	<14		50	14	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Methylene Chloride	<82		250	82	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Naphthalene	<17		50	17	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
n-Butylbenzene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
N-Propylbenzene	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Styrene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Tetrachloroethene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Toluene	<7.4		13	7.4	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-220837-27

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 17:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Vinyl chloride	<13		50	13	ug/Kg		08/11/22 00:00	08/25/22 00:46	50
Xylenes, Total	<11		25	11	ug/Kg		08/11/22 00:00	08/25/22 00:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	08/11/22 00:00	08/25/22 00:46	50
Dibromofluoromethane (Surr)	94		75 - 120	08/11/22 00:00	08/25/22 00:46	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126	08/11/22 00:00	08/25/22 00:46	50
Toluene-d8 (Surr)	98		75 - 120	08/11/22 00:00	08/25/22 00:46	50

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC/MS VOA

Prep Batch: 670490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	5035	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	5035	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	5035	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	5035	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	5035	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	5035	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	5035	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	5035	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	5035	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	5035	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	5035	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	5035	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	5035	
500-220837-14	GP-1 (9-10)	Total/NA	Solid	5035	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	5035	
500-220837-16	GP-2 (7-9)	Total/NA	Solid	5035	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	5035	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	5035	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	5035	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	5035	
LB3 500-670490/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-670490/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-220837-11 MS	GP-3 (24-25)	Total/NA	Solid	5035	
500-220837-11 MSD	GP-3 (24-25)	Total/NA	Solid	5035	

Prep Batch: 670503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	5035	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	5035	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	5035	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	5035	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	5035	
500-220837-27	Trip Blank	Total/NA	Solid	5035	
LB3 500-670503/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-670503/20-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 671234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-5	GP-5 (2-4)	Total/NA	Solid	8260B	670490
500-220837-6	GP-5 (11-12)	Total/NA	Solid	8260B	670490
500-220837-7	GP-5 (16-17)	Total/NA	Solid	8260B	670490
500-220837-8	GP-3 (2-4)	Total/NA	Solid	8260B	670490
500-220837-9	GP-3 (12-13)	Total/NA	Solid	8260B	670490
500-220837-10	GP-3 (16-17)	Total/NA	Solid	8260B	670490
MB 500-671234/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-670490/22-A	Lab Control Sample	Total/NA	Solid	8260B	670490
LCS 500-671234/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 671503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	8260B	670490

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC/MS VOA (Continued)

Analysis Batch: 671503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-2	GP-7 (10-11)	Total/NA	Solid	8260B	670490
500-220837-3	GP-7 (16-17)	Total/NA	Solid	8260B	670490
500-220837-4	GP-7 (20-21)	Total/NA	Solid	8260B	670490
500-220837-11	GP-3 (24-25)	Total/NA	Solid	8260B	670490
500-220837-12	GP-1 (2-4)	Total/NA	Solid	8260B	670490
500-220837-13	GP-1 (8-9)	Total/NA	Solid	8260B	670490
500-220837-14	GP-1 (9-10)	Total/NA	Solid	8260B	670490
500-220837-15	GP-2 (2-4)	Total/NA	Solid	8260B	670490
500-220837-18	GP-4 (9-10)	Total/NA	Solid	8260B	670490
500-220837-19	GP-4 (16-17)	Total/NA	Solid	8260B	670490
500-220837-21	GP-6 (11-12)	Total/NA	Solid	8260B	670503
500-220837-22	GP-6 (22-23)	Total/NA	Solid	8260B	670503
500-220837-23	GP-8 (2-4)	Total/NA	Solid	8260B	670503
500-220837-24	GP-8 (6-7)	Total/NA	Solid	8260B	670503
500-220837-25	GP-8 (22-23)	Total/NA	Solid	8260B	670503
500-220837-27	Trip Blank	Total/NA	Solid	8260B	670503
LB3 500-670490/21-A	Method Blank	Total/NA	Solid	8260B	670490
MB 500-671503/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-671503/12	Lab Control Sample	Total/NA	Solid	8260B	
500-220837-11 MS	GP-3 (24-25)	Total/NA	Solid	8260B	670490
500-220837-11 MSD	GP-3 (24-25)	Total/NA	Solid	8260B	670490

Leach Batch: 671603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	1311	
LB 500-671603/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 671627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	8260B	671603
LB 500-671603/1-A	Method Blank	TCLP	Solid	8260B	671603
MB 500-671627/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-671627/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 671641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-16	GP-2 (7-9)	Total/NA	Solid	8260B	670490
500-220837-17	GP-4 (2-4)	Total/NA	Solid	8260B	670490
500-220837-20	GP-6 (0-5)	Total/NA	Solid	8260B	670490
MB 500-671641/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-671641/10	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 671668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-670503/19-A	Method Blank	Total/NA	Solid	8260B	670503
MB 500-671668/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-670503/20-A	Lab Control Sample	Total/NA	Solid	8260B	670503
LCS 500-671668/4	Lab Control Sample	Total/NA	Solid	8260B	

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC/MS Semi VOA

Leach Batch: 671341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	1311	
LB2 500-671341/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 671397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	3541	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	3541	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	3541	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	3541	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	3541	
MB 500-671397/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-671397/2-A	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 671491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	3510C	671341
LB2 500-671341/1-B	Method Blank	TCLP	Solid	3510C	671341
MB 500-671491/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-671491/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Prep Batch: 671612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	3541	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	3541	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	3541	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	3541	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	3541	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	3541	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	3541	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	3541	
500-220837-9 - DL	GP-3 (12-13)	Total/NA	Solid	3541	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	3541	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	3541	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	3541	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	3541	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	3541	
500-220837-14	GP-1 (9-10)	Total/NA	Solid	3541	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	3541	
500-220837-16	GP-2 (7-9)	Total/NA	Solid	3541	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	3541	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	3541	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	3541	
500-220837-20 - DL	GP-6 (0-5)	Total/NA	Solid	3541	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	3541	
MB 500-671612/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-671612/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-220837-1 MS	GP-7 (2-4)	Total/NA	Solid	3541	
500-220837-1 MSD	GP-7 (2-4)	Total/NA	Solid	3541	

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC/MS Semi VOA

Analysis Batch: 671688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB2 500-671341/1-B	Method Blank	TCLP	Solid	8270E	671491
MB 500-671491/1-A	Method Blank	Total/NA	Solid	8270E	671491
LCS 500-671491/2-A	Lab Control Sample	Total/NA	Solid	8270E	671491

Analysis Batch: 671916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	8270E	671491

Analysis Batch: 671948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	8270D	671397
500-220837-22	GP-6 (22-23)	Total/NA	Solid	8270D	671397
500-220837-23	GP-8 (2-4)	Total/NA	Solid	8270D	671397
500-220837-24	GP-8 (6-7)	Total/NA	Solid	8270D	671397
500-220837-25	GP-8 (22-23)	Total/NA	Solid	8270D	671397
MB 500-671397/1-A	Method Blank	Total/NA	Solid	8270D	671397
LCS 500-671397/2-A	Lab Control Sample	Total/NA	Solid	8270D	671397

Analysis Batch: 672142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	8270D	671612
500-220837-2	GP-7 (10-11)	Total/NA	Solid	8270D	671612
500-220837-3	GP-7 (16-17)	Total/NA	Solid	8270D	671612
500-220837-4	GP-7 (20-21)	Total/NA	Solid	8270D	671612
500-220837-5	GP-5 (2-4)	Total/NA	Solid	8270D	671612
500-220837-6	GP-5 (11-12)	Total/NA	Solid	8270D	671612
500-220837-7	GP-5 (16-17)	Total/NA	Solid	8270D	671612
500-220837-8	GP-3 (2-4)	Total/NA	Solid	8270D	671612
500-220837-9	GP-3 (12-13)	Total/NA	Solid	8270D	671612
500-220837-10	GP-3 (16-17)	Total/NA	Solid	8270D	671612
500-220837-11	GP-3 (24-25)	Total/NA	Solid	8270D	671612
500-220837-12	GP-1 (2-4)	Total/NA	Solid	8270D	671612
500-220837-13	GP-1 (8-9)	Total/NA	Solid	8270D	671612
500-220837-14	GP-1 (9-10)	Total/NA	Solid	8270D	671612
500-220837-15	GP-2 (2-4)	Total/NA	Solid	8270D	671612
500-220837-16	GP-2 (7-9)	Total/NA	Solid	8270D	671612
500-220837-17	GP-4 (2-4)	Total/NA	Solid	8270D	671612
500-220837-18	GP-4 (9-10)	Total/NA	Solid	8270D	671612
500-220837-19	GP-4 (16-17)	Total/NA	Solid	8270D	671612
500-220837-20	GP-6 (0-5)	Total/NA	Solid	8270D	671612
MB 500-671612/1-A	Method Blank	Total/NA	Solid	8270D	671612
LCS 500-671612/2-A	Lab Control Sample	Total/NA	Solid	8270D	671612
500-220837-1 MS	GP-7 (2-4)	Total/NA	Solid	8270D	671612
500-220837-1 MSD	GP-7 (2-4)	Total/NA	Solid	8270D	671612

Analysis Batch: 672277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-20 - DL	GP-6 (0-5)	Total/NA	Solid	8270D	671612

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC/MS Semi VOA

Analysis Batch: 672283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-9 - DL	GP-3 (12-13)	Total/NA	Solid	8270D	671612

GC Semi VOA

Prep Batch: 671850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	3541	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	3541	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	3541	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	3541	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	3541	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	3541	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	3541	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	3541	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	3541	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	3541	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	3541	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	3541	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	3541	
500-220837-14	GP-1 (9-10)	Total/NA	Solid	3541	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	3541	
500-220837-16	GP-2 (7-9)	Total/NA	Solid	3541	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	3541	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	3541	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	3541	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	3541	
MB 500-671850/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-671850/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-220837-6 MS	GP-5 (11-12)	Total/NA	Solid	3541	
500-220837-6 MSD	GP-5 (11-12)	Total/NA	Solid	3541	

Prep Batch: 671936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	3541	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	3541	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	3541	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	3541	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	3541	
500-220837-26	Protocol B	Total/NA	Solid	3541	
MB 500-671936/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-671936/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 672139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	8082A	671936
500-220837-22	GP-6 (22-23)	Total/NA	Solid	8082A	671936
500-220837-23	GP-8 (2-4)	Total/NA	Solid	8082A	671936
500-220837-24	GP-8 (6-7)	Total/NA	Solid	8082A	671936
500-220837-25	GP-8 (22-23)	Total/NA	Solid	8082A	671936
500-220837-26	Protocol B	Total/NA	Solid	8082A	671936
MB 500-671936/1-A	Method Blank	Total/NA	Solid	8082A	671936

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

GC Semi VOA (Continued)

Analysis Batch: 672139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-671936/2-A	Lab Control Sample	Total/NA	Solid	8082A	671936

Analysis Batch: 672212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	8082A	671850
500-220837-2	GP-7 (10-11)	Total/NA	Solid	8082A	671850
500-220837-3	GP-7 (16-17)	Total/NA	Solid	8082A	671850
500-220837-4	GP-7 (20-21)	Total/NA	Solid	8082A	671850
500-220837-5	GP-5 (2-4)	Total/NA	Solid	8082A	671850
500-220837-6	GP-5 (11-12)	Total/NA	Solid	8082A	671850
500-220837-7	GP-5 (16-17)	Total/NA	Solid	8082A	671850
500-220837-8	GP-3 (2-4)	Total/NA	Solid	8082A	671850
500-220837-9	GP-3 (12-13)	Total/NA	Solid	8082A	671850
500-220837-10	GP-3 (16-17)	Total/NA	Solid	8082A	671850
500-220837-11	GP-3 (24-25)	Total/NA	Solid	8082A	671850
500-220837-12	GP-1 (2-4)	Total/NA	Solid	8082A	671850
500-220837-13	GP-1 (8-9)	Total/NA	Solid	8082A	671850
500-220837-14	GP-1 (9-10)	Total/NA	Solid	8082A	671850
500-220837-15	GP-2 (2-4)	Total/NA	Solid	8082A	671850
500-220837-16	GP-2 (7-9)	Total/NA	Solid	8082A	671850
500-220837-17	GP-4 (2-4)	Total/NA	Solid	8082A	671850
MB 500-671850/1-A	Method Blank	Total/NA	Solid	8082A	671850
LCS 500-671850/2-A	Lab Control Sample	Total/NA	Solid	8082A	671850
500-220837-6 MS	GP-5 (11-12)	Total/NA	Solid	8082A	671850
500-220837-6 MSD	GP-5 (11-12)	Total/NA	Solid	8082A	671850

Analysis Batch: 672221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-18	GP-4 (9-10)	Total/NA	Solid	8082A	671850
500-220837-19	GP-4 (16-17)	Total/NA	Solid	8082A	671850
500-220837-20	GP-6 (0-5)	Total/NA	Solid	8082A	671850

Metals

Prep Batch: 671300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	7471B	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	7471B	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	7471B	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	7471B	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	7471B	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	7471B	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	7471B	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	7471B	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	7471B	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	7471B	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	7471B	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	7471B	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	7471B	
500-220837-14	GP-1 (9-10)	Total/NA	Solid	7471B	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	7471B	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Metals (Continued)

Prep Batch: 671300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-16	GP-2 (7-9)	Total/NA	Solid	7471B	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	7471B	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	7471B	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	7471B	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	7471B	
MB 500-671300/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-671300/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-220837-9 MS	GP-3 (12-13)	Total/NA	Solid	7471B	
500-220837-9 MSD	GP-3 (12-13)	Total/NA	Solid	7471B	
500-220837-9 DU	GP-3 (12-13)	Total/NA	Solid	7471B	

Prep Batch: 671305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	7471B	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	7471B	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	7471B	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	7471B	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	7471B	
MB 500-671305/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-671305/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 671341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	1311	
LB2 500-671341/1-E	Method Blank	TCLP	Solid	1311	
LB2 500-671341/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 671343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	3050B	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	3050B	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	3050B	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	3050B	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	3050B	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	3050B	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	3050B	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	3050B	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	3050B	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	3050B	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	3050B	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	3050B	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	3050B	
500-220837-14	GP-1 (9-10)	Total/NA	Solid	3050B	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	3050B	
500-220837-16	GP-2 (7-9)	Total/NA	Solid	3050B	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	3050B	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	3050B	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	3050B	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	3050B	
MB 500-671343/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-671343/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Metals (Continued)

Prep Batch: 671343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-11 MS	GP-3 (24-25)	Total/NA	Solid	3050B	
500-220837-11 MSD	GP-3 (24-25)	Total/NA	Solid	3050B	
500-220837-11 DU	GP-3 (24-25)	Total/NA	Solid	3050B	

Prep Batch: 671349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	3050B	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	3050B	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	3050B	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	3050B	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	3050B	
MB 500-671349/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-671349/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-220837-21 MS	GP-6 (11-12)	Total/NA	Solid	3050B	
500-220837-21 MSD	GP-6 (11-12)	Total/NA	Solid	3050B	
500-220837-21 DU	GP-6 (11-12)	Total/NA	Solid	3050B	

Analysis Batch: 671489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	7471B	671300
500-220837-2	GP-7 (10-11)	Total/NA	Solid	7471B	671300
500-220837-3	GP-7 (16-17)	Total/NA	Solid	7471B	671300
500-220837-4	GP-7 (20-21)	Total/NA	Solid	7471B	671300
500-220837-5	GP-5 (2-4)	Total/NA	Solid	7471B	671300
500-220837-6	GP-5 (11-12)	Total/NA	Solid	7471B	671300
500-220837-7	GP-5 (16-17)	Total/NA	Solid	7471B	671300
500-220837-8	GP-3 (2-4)	Total/NA	Solid	7471B	671300
500-220837-9	GP-3 (12-13)	Total/NA	Solid	7471B	671300
500-220837-10	GP-3 (16-17)	Total/NA	Solid	7471B	671300
500-220837-11	GP-3 (24-25)	Total/NA	Solid	7471B	671300
500-220837-12	GP-1 (2-4)	Total/NA	Solid	7471B	671300
500-220837-13	GP-1 (8-9)	Total/NA	Solid	7471B	671300
500-220837-14	GP-1 (9-10)	Total/NA	Solid	7471B	671300
500-220837-15	GP-2 (2-4)	Total/NA	Solid	7471B	671300
500-220837-16	GP-2 (7-9)	Total/NA	Solid	7471B	671300
500-220837-17	GP-4 (2-4)	Total/NA	Solid	7471B	671300
500-220837-18	GP-4 (9-10)	Total/NA	Solid	7471B	671300
500-220837-19	GP-4 (16-17)	Total/NA	Solid	7471B	671300
500-220837-20	GP-6 (0-5)	Total/NA	Solid	7471B	671300
500-220837-21	GP-6 (11-12)	Total/NA	Solid	7471B	671305
500-220837-22	GP-6 (22-23)	Total/NA	Solid	7471B	671305
500-220837-23	GP-8 (2-4)	Total/NA	Solid	7471B	671305
500-220837-24	GP-8 (6-7)	Total/NA	Solid	7471B	671305
500-220837-25	GP-8 (22-23)	Total/NA	Solid	7471B	671305
MB 500-671300/12-A	Method Blank	Total/NA	Solid	7471B	671300
MB 500-671305/12-A	Method Blank	Total/NA	Solid	7471B	671305
LCS 500-671300/13-A	Lab Control Sample	Total/NA	Solid	7471B	671300
LCS 500-671305/13-A	Lab Control Sample	Total/NA	Solid	7471B	671305
500-220837-9 MS	GP-3 (12-13)	Total/NA	Solid	7471B	671300
500-220837-9 MSD	GP-3 (12-13)	Total/NA	Solid	7471B	671300
500-220837-9 DU	GP-3 (12-13)	Total/NA	Solid	7471B	671300

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Metals

Prep Batch: 671551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	7470A	671341
LB2 500-671341/2-B	Method Blank	TCLP	Solid	7470A	671341
MB 500-671551/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-671551/28-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 671650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	3010A	671341
LB2 500-671341/1-E	Method Blank	TCLP	Solid	3010A	671341
LCS 500-671650/15-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 671661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	6010C	671343
500-220837-2	GP-7 (10-11)	Total/NA	Solid	6010C	671343
500-220837-3	GP-7 (16-17)	Total/NA	Solid	6010C	671343
500-220837-4	GP-7 (20-21)	Total/NA	Solid	6010C	671343
500-220837-5	GP-5 (2-4)	Total/NA	Solid	6010C	671343
500-220837-6	GP-5 (11-12)	Total/NA	Solid	6010C	671343
500-220837-7	GP-5 (16-17)	Total/NA	Solid	6010C	671343
500-220837-8	GP-3 (2-4)	Total/NA	Solid	6010C	671343
500-220837-9	GP-3 (12-13)	Total/NA	Solid	6010C	671343
500-220837-10	GP-3 (16-17)	Total/NA	Solid	6010C	671343
500-220837-11	GP-3 (24-25)	Total/NA	Solid	6010C	671343
500-220837-12	GP-1 (2-4)	Total/NA	Solid	6010C	671343
500-220837-13	GP-1 (8-9)	Total/NA	Solid	6010C	671343
500-220837-14	GP-1 (9-10)	Total/NA	Solid	6010C	671343
500-220837-15	GP-2 (2-4)	Total/NA	Solid	6010C	671343
500-220837-16	GP-2 (7-9)	Total/NA	Solid	6010C	671343
500-220837-16	GP-2 (7-9)	Total/NA	Solid	6010C	671343
500-220837-17	GP-4 (2-4)	Total/NA	Solid	6010C	671343
500-220837-17	GP-4 (2-4)	Total/NA	Solid	6010C	671343
500-220837-18	GP-4 (9-10)	Total/NA	Solid	6010C	671343
500-220837-19	GP-4 (16-17)	Total/NA	Solid	6010C	671343
500-220837-20	GP-6 (0-5)	Total/NA	Solid	6010C	671343
500-220837-20	GP-6 (0-5)	Total/NA	Solid	6010C	671343
500-220837-21	GP-6 (11-12)	Total/NA	Solid	6010C	671349
500-220837-22	GP-6 (22-23)	Total/NA	Solid	6010C	671349
500-220837-23	GP-8 (2-4)	Total/NA	Solid	6010C	671349
500-220837-24	GP-8 (6-7)	Total/NA	Solid	6010C	671349
500-220837-25	GP-8 (22-23)	Total/NA	Solid	6010C	671349
MB 500-671343/1-A	Method Blank	Total/NA	Solid	6010C	671343
MB 500-671349/1-A	Method Blank	Total/NA	Solid	6010C	671349
LCS 500-671343/2-A	Lab Control Sample	Total/NA	Solid	6010C	671343
LCS 500-671349/2-A	Lab Control Sample	Total/NA	Solid	6010C	671349
500-220837-11 MS	GP-3 (24-25)	Total/NA	Solid	6010C	671343
500-220837-11 MSD	GP-3 (24-25)	Total/NA	Solid	6010C	671343
500-220837-21 MS	GP-6 (11-12)	Total/NA	Solid	6010C	671349
500-220837-21 MSD	GP-6 (11-12)	Total/NA	Solid	6010C	671349
500-220837-11 DU	GP-3 (24-25)	Total/NA	Solid	6010C	671343
500-220837-21 DU	GP-6 (11-12)	Total/NA	Solid	6010C	671349

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Metals

Analysis Batch: 671735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	7470A	671551
LB2 500-671341/2-B	Method Blank	TCLP	Solid	7470A	671551
MB 500-671551/12-A	Method Blank	Total/NA	Solid	7470A	671551
LCS 500-671551/28-A	Lab Control Sample	Total/NA	Solid	7470A	671551

Analysis Batch: 671851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	6010D	671650
LB2 500-671341/1-E	Method Blank	TCLP	Solid	6010D	671650
LCS 500-671650/15-A	Lab Control Sample	Total/NA	Solid	6010D	671650

Analysis Batch: 671937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	TCLP	Solid	6010D	671650
LB2 500-671341/1-E	Method Blank	TCLP	Solid	6010D	671650
LCS 500-671650/15-A	Lab Control Sample	Total/NA	Solid	6010D	671650

General Chemistry

Analysis Batch: 670265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9045D	
LCS 500-670265/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-670265/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 671250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-1	GP-7 (2-4)	Total/NA	Solid	Moisture	
500-220837-2	GP-7 (10-11)	Total/NA	Solid	Moisture	
500-220837-3	GP-7 (16-17)	Total/NA	Solid	Moisture	
500-220837-4	GP-7 (20-21)	Total/NA	Solid	Moisture	
500-220837-5	GP-5 (2-4)	Total/NA	Solid	Moisture	
500-220837-6	GP-5 (11-12)	Total/NA	Solid	Moisture	
500-220837-7	GP-5 (16-17)	Total/NA	Solid	Moisture	
500-220837-8	GP-3 (2-4)	Total/NA	Solid	Moisture	
500-220837-9	GP-3 (12-13)	Total/NA	Solid	Moisture	
500-220837-10	GP-3 (16-17)	Total/NA	Solid	Moisture	
500-220837-11	GP-3 (24-25)	Total/NA	Solid	Moisture	
500-220837-12	GP-1 (2-4)	Total/NA	Solid	Moisture	
500-220837-13	GP-1 (8-9)	Total/NA	Solid	Moisture	
500-220837-1 DU	GP-7 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 671287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-14	GP-1 (9-10)	Total/NA	Solid	Moisture	
500-220837-15	GP-2 (2-4)	Total/NA	Solid	Moisture	
500-220837-16	GP-2 (7-9)	Total/NA	Solid	Moisture	
500-220837-17	GP-4 (2-4)	Total/NA	Solid	Moisture	
500-220837-18	GP-4 (9-10)	Total/NA	Solid	Moisture	
500-220837-19	GP-4 (16-17)	Total/NA	Solid	Moisture	
500-220837-20	GP-6 (0-5)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

General Chemistry (Continued)

Analysis Batch: 671287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-21	GP-6 (11-12)	Total/NA	Solid	Moisture	
500-220837-22	GP-6 (22-23)	Total/NA	Solid	Moisture	
500-220837-23	GP-8 (2-4)	Total/NA	Solid	Moisture	
500-220837-24	GP-8 (6-7)	Total/NA	Solid	Moisture	
500-220837-25	GP-8 (22-23)	Total/NA	Solid	Moisture	
500-220837-26	Protocol B	Total/NA	Solid	Moisture	
500-220837-14 DU	GP-1 (9-10)	Total/NA	Solid	Moisture	

Prep Batch: 671318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9010C	
MB 500-671318/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-671318/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-671318/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-671318/4-A	Lab Control Sample	Total/NA	Solid	9010C	
500-220837-26 MS	Protocol B	Total/NA	Solid	9010C	
500-220837-26 MSD	Protocol B	Total/NA	Solid	9010C	

Prep Batch: 671902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	Distill/Phenol	
MB 500-671902/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 500-671902/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 671922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9012B	671318
MB 500-671318/1-A	Method Blank	Total/NA	Solid	9012B	671318
HLCS 500-671318/2-A	Lab Control Sample	Total/NA	Solid	9012B	671318
LCS 500-671318/3-A	Lab Control Sample	Total/NA	Solid	9012B	671318
LLCS 500-671318/4-A	Lab Control Sample	Total/NA	Solid	9012B	671318
500-220837-26 MS	Protocol B	Total/NA	Solid	9012B	671318
500-220837-26 MSD	Protocol B	Total/NA	Solid	9012B	671318

Analysis Batch: 671966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9066	671902
MB 500-671902/1-A	Method Blank	Total/NA	Solid	9066	671902
LCS 500-671902/2-A	Lab Control Sample	Total/NA	Solid	9066	671902

Analysis Batch: 671967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9095B	

Analysis Batch: 672204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	D92	

Prep Batch: 672214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9030B	

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

General Chemistry (Continued)

Prep Batch: 672214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-672214/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-672214/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 672340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9034	672214
MB 500-672214/1-A	Method Blank	Total/NA	Solid	9034	672214
LCS 500-672214/2-A	Lab Control Sample	Total/NA	Solid	9034	672214

Analysis Batch: 672393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	SM 2710F	
500-220837-26 DU	Protocol B	Total/NA	Solid	SM 2710F	

Prep Batch: 736289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	5050	
MB 680-736289/1-A	Method Blank	Total/NA	Solid	5050	
LCS 680-736289/2-A	Lab Control Sample	Total/NA	Solid	5050	

Analysis Batch: 736327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220837-26	Protocol B	Total/NA	Solid	9251	736289
MB 680-736289/1-A	Method Blank	Total/NA	Solid	9251	736289
LCS 680-736289/2-A	Lab Control Sample	Total/NA	Solid	9251	736289

Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-220837-1	GP-7 (2-4)	89	91	88	102
500-220837-2	GP-7 (10-11)	88	93	92	99
500-220837-3	GP-7 (16-17)	88	93	91	100
500-220837-4	GP-7 (20-21)	86	92	91	103
500-220837-5	GP-5 (2-4)	87	88	89	101
500-220837-6	GP-5 (11-12)	90	94	91	99
500-220837-7	GP-5 (16-17)	90	92	89	101
500-220837-8	GP-3 (2-4)	90	92	90	100
500-220837-9	GP-3 (12-13)	93	94	92	101
500-220837-10	GP-3 (16-17)	89	95	93	99
500-220837-11	GP-3 (24-25)	91	93	93	100
500-220837-11 MS	GP-3 (24-25)	91	93	89	104
500-220837-11 MSD	GP-3 (24-25)	94	93	90	99
500-220837-12	GP-1 (2-4)	88	91	93	102
500-220837-13	GP-1 (8-9)	88	93	90	99
500-220837-14	GP-1 (9-10)	88	93	94	102
500-220837-15	GP-2 (2-4)	88	94	91	100
500-220837-16	GP-2 (7-9)	109	97	100	99
500-220837-17	GP-4 (2-4)	107	99	102	99
500-220837-18	GP-4 (9-10)	89	92	94	101
500-220837-19	GP-4 (16-17)	87	95	92	100
500-220837-20	GP-6 (0-5)	107	99	104	99
500-220837-21	GP-6 (11-12)	90	94	92	101
500-220837-22	GP-6 (22-23)	91	97	94	99
500-220837-23	GP-8 (2-4)	91	94	92	101
500-220837-24	GP-8 (6-7)	90	96	95	99
500-220837-25	GP-8 (22-23)	87	94	92	100
500-220837-27	Trip Blank	88	94	91	98
LB3 500-670490/21-A	Method Blank	92	90	89	101
LB3 500-670503/19-A	Method Blank	87	92	89	102
LCS 500-670490/22-A	Lab Control Sample	92	93	92	99
LCS 500-670503/20-A	Lab Control Sample	92	95	90	101
LCS 500-671234/4	Lab Control Sample	92	94	88	104
LCS 500-671503/12	Lab Control Sample	94	93	89	102
LCS 500-671627/4	Lab Control Sample	108	111	114	105
LCS 500-671641/10	Lab Control Sample	102	95	96	102
LCS 500-671668/4	Lab Control Sample	93	89	86	101
MB 500-671234/6	Method Blank	87	94	88	102
MB 500-671503/6	Method Blank	89	92	89	102
MB 500-671627/6	Method Blank	120	103	116	100
MB 500-671641/6	Method Blank	112	102	103	99
MB 500-671668/6	Method Blank	88	92	90	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-220837-26	Protocol B	116	104	117	102
LB 500-671603/1-A	Method Blank	107	111	115	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ	TPHL	FBP
		(37-147)	(42-157)	(43-145)
500-220837-1	GP-7 (2-4)	44	91	58
500-220837-1 MS	GP-7 (2-4)	80	88	91
500-220837-1 MSD	GP-7 (2-4)	60	91	77
500-220837-2	GP-7 (10-11)	41	94	82
500-220837-3	GP-7 (16-17)	98	108	104
500-220837-4	GP-7 (20-21)	88	99	96
500-220837-5	GP-5 (2-4)	0 D	0 D	0 D
500-220837-6	GP-5 (11-12)	82	116	93
500-220837-7	GP-5 (16-17)	85	101	94
500-220837-8	GP-3 (2-4)	83	104	92
500-220837-9	GP-3 (12-13)	88	105	105
500-220837-9 - DL	GP-3 (12-13)	52	99	72
500-220837-10	GP-3 (16-17)	69	97	85
500-220837-11	GP-3 (24-25)	81	103	101
500-220837-12	GP-1 (2-4)	63	97	79
500-220837-13	GP-1 (8-9)	67	105	75
500-220837-14	GP-1 (9-10)	64	99	76
500-220837-15	GP-2 (2-4)	60	88	70
500-220837-16	GP-2 (7-9)	69	84	81
500-220837-17	GP-4 (2-4)	0 D	0 D	0 D
500-220837-18	GP-4 (9-10)	63	106	81
500-220837-19	GP-4 (16-17)	71	104	87
500-220837-20	GP-6 (0-5)	0 D	0 D	0 D
500-220837-20 - DL	GP-6 (0-5)	0 D	0 D	0 D
500-220837-21	GP-6 (11-12)	70	104	80
500-220837-22	GP-6 (22-23)	58	110	65
500-220837-23	GP-8 (2-4)	53	107	62
500-220837-24	GP-8 (6-7)	67	124	71
500-220837-25	GP-8 (22-23)	72	104	95
LCS 500-671397/2-A	Lab Control Sample	93	95	102
LCS 500-671612/2-A	Lab Control Sample	56	97	112
MB 500-671397/1-A	Method Blank	75	103	90
MB 500-671612/1-A	Method Blank	62	132	88

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002
 TPHL = Terphenyl-d14 (Surr)
 FBP = 2-Fluorobiphenyl (Surr)

Job ID: 500-220837-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
LCS 500-671491/2-A	Lab Control Sample	103	85	86	42	115	99
MB 500-671491/1-A	Method Blank	78	59	41	17 S1-	105	66

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
500-220837-26	Protocol B	50	36	81 *3	19 S1-	96	93
LB2 500-671341/1-B	Method Blank	90	76	61	27	128	79

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-220837-1	GP-7 (2-4)	74	82
500-220837-2	GP-7 (10-11)	105	98
500-220837-3	GP-7 (16-17)	90	97
500-220837-4	GP-7 (20-21)	96	96
500-220837-5	GP-5 (2-4)	104	78
500-220837-6	GP-5 (11-12)	102	71
500-220837-6 MS	GP-5 (11-12)	100	69
500-220837-6 MSD	GP-5 (11-12)	100	83
500-220837-7	GP-5 (16-17)	110	94
500-220837-8	GP-3 (2-4)	103	97
500-220837-9	GP-3 (12-13)	96	107
500-220837-10	GP-3 (16-17)	70	74
500-220837-11	GP-3 (24-25)	62	67
500-220837-12	GP-1 (2-4)	71	66
500-220837-13	GP-1 (8-9)	72	93

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Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-220837-14	GP-1 (9-10)	71	100
500-220837-15	GP-2 (2-4)	93	81
500-220837-16	GP-2 (7-9)	85	92
500-220837-17	GP-4 (2-4)	90	99
500-220837-18	GP-4 (9-10)	116	125 S1+
500-220837-19	GP-4 (16-17)	91	94
500-220837-20	GP-6 (0-5)	104	83
500-220837-21	GP-6 (11-12)	86	120
500-220837-22	GP-6 (22-23)	93	136 S1+
500-220837-23	GP-8 (2-4)	89	128 S1+
500-220837-24	GP-8 (6-7)	79	132 S1+
500-220837-25	GP-8 (22-23)	88	121
500-220837-26	Protocol B	92	122 S1+
LCS 500-671850/2-A	Lab Control Sample	137 S1+	126 S1+
LCS 500-671936/2-A	Lab Control Sample	108	132 S1+
MB 500-671850/1-A	Method Blank	133 S1+	121
MB 500-671936/1-A	Method Blank	151 S1+	189 S1+

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-670490/21-A
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670490

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Bromobenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Bromochloromethane	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Bromodichloromethane	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Bromoform	<24		50	24	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Bromomethane	<40		150	40	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Chlorobenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Chloroethane	<25		50	25	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Chloroform	<19		100	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Chloromethane	<16		50	16	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Dibromochloromethane	<24		50	24	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2-Dibromoethane (EDB)	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Dibromomethane	<14		50	14	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Isopropylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Isopropyl ether	<14		50	14	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Methylene Chloride	149	J	250	82	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Naphthalene	26.7	J	50	17	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
n-Butylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
N-Propylbenzene	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Styrene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Tetrachloroethene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Toluene	<7.4		13	7.4	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-670490/21-A
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670490

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2,4-Trichlorobenzene	23.4	J	50	17	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Vinyl chloride	<13		50	13	ug/Kg		08/17/22 12:15	08/24/22 17:06	50
Xylenes, Total	<11		25	11	ug/Kg		08/17/22 12:15	08/24/22 17:06	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124	08/17/22 12:15	08/24/22 17:06	50
Dibromofluoromethane (Surr)	90		75 - 120	08/17/22 12:15	08/24/22 17:06	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	08/17/22 12:15	08/24/22 17:06	50
Toluene-d8 (Surr)	101		75 - 120	08/17/22 12:15	08/24/22 17:06	50

Lab Sample ID: LCS 500-670490/22-A
Matrix: Solid
Analysis Batch: 671234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	2500	2750		ug/Kg		110	70 - 120
Bromobenzene	2500	2640		ug/Kg		106	70 - 122
Bromochloromethane	2500	2640		ug/Kg		106	65 - 122
Bromodichloromethane	2500	2640		ug/Kg		106	69 - 120
Bromoform	2500	2460		ug/Kg		98	56 - 132
Bromomethane	2500	1880		ug/Kg		75	40 - 152
Carbon tetrachloride	2500	2730		ug/Kg		109	59 - 133
Chlorobenzene	2500	2660		ug/Kg		107	70 - 120
Chloroethane	2500	2380		ug/Kg		95	48 - 136
Chloroform	2500	2640		ug/Kg		106	70 - 120
Chloromethane	2500	1570		ug/Kg		63	56 - 152
2-Chlorotoluene	2500	2650		ug/Kg		106	70 - 125
4-Chlorotoluene	2500	2560		ug/Kg		102	68 - 124
cis-1,2-Dichloroethene	2500	2730		ug/Kg		109	70 - 125
cis-1,3-Dichloropropene	2500	2510		ug/Kg		101	64 - 127
Dibromochloromethane	2500	2520		ug/Kg		101	68 - 125
1,2-Dibromo-3-Chloropropane	2500	1990		ug/Kg		80	56 - 123
1,2-Dibromoethane (EDB)	2500	2380		ug/Kg		95	70 - 125
Dibromomethane	2500	2550		ug/Kg		102	70 - 120
1,2-Dichlorobenzene	2500	2510		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	70 - 125
1,4-Dichlorobenzene	2500	2500		ug/Kg		100	70 - 120
Dichlorodifluoromethane	2500	1010		ug/Kg		41	40 - 159
1,1-Dichloroethane	2500	2570		ug/Kg		103	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-670490/22-A
Matrix: Solid
Analysis Batch: 671234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2500	2550		ug/Kg		102	68 - 127
1,1-Dichloroethene	2500	2660		ug/Kg		106	67 - 122
1,2-Dichloropropane	2500	2550		ug/Kg		102	67 - 130
1,3-Dichloropropane	2500	2460		ug/Kg		98	62 - 136
2,2-Dichloropropane	2500	2520		ug/Kg		101	58 - 139
1,1-Dichloropropene	2500	2710		ug/Kg		108	70 - 121
Ethylbenzene	2500	2560		ug/Kg		102	70 - 123
Hexachlorobutadiene	2500	2880		ug/Kg		115	51 - 150
Isopropylbenzene	2500	2650		ug/Kg		106	70 - 126
Methylene Chloride	2500	2680		ug/Kg		107	69 - 125
Methyl tert-butyl ether	2500	2430		ug/Kg		97	55 - 123
Naphthalene	2500	2160		ug/Kg		86	53 - 144
n-Butylbenzene	2500	2620		ug/Kg		105	68 - 125
N-Propylbenzene	2500	2690		ug/Kg		108	69 - 127
p-Isopropyltoluene	2500	2600		ug/Kg		104	70 - 125
sec-Butylbenzene	2500	2720		ug/Kg		109	70 - 123
Styrene	2500	2640		ug/Kg		106	70 - 120
tert-Butylbenzene	2500	2640		ug/Kg		106	70 - 121
1,1,1,2-Tetrachloroethane	2500	2470		ug/Kg		99	70 - 125
1,1,1,2,2-Tetrachloroethane	2500	2140		ug/Kg		86	62 - 140
Tetrachloroethene	2500	3000		ug/Kg		120	70 - 128
Toluene	2500	2640		ug/Kg		106	70 - 125
trans-1,2-Dichloroethene	2500	2620		ug/Kg		105	70 - 125
trans-1,3-Dichloropropene	2500	2360		ug/Kg		94	62 - 128
1,2,3-Trichlorobenzene	2500	2410		ug/Kg		97	51 - 145
1,2,4-Trichlorobenzene	2500	2560		ug/Kg		102	57 - 137
1,1,1-Trichloroethane	2500	2720		ug/Kg		109	70 - 125
1,1,2-Trichloroethane	2500	2550		ug/Kg		102	71 - 130
Trichloroethene	2500	2790		ug/Kg		112	70 - 125
Trichlorofluoromethane	2500	2390		ug/Kg		96	55 - 128
1,2,3-Trichloropropane	2500	2140		ug/Kg		86	50 - 133
1,2,4-Trimethylbenzene	2500	2680		ug/Kg		107	70 - 123
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	70 - 123
Vinyl chloride	2500	1710		ug/Kg		68	64 - 126
Xylenes, Total	5000	5410		ug/Kg		108	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-220837-11 MS
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: GP-3 (24-25)
Prep Type: Total/NA
Prep Batch: 670490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<8.8		3010	2820		ug/Kg	☆	94	70 - 120

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-220837-11 MS

Matrix: Solid

Analysis Batch: 671503

Client Sample ID: GP-3 (24-25)

Prep Type: Total/NA

Prep Batch: 670490

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromobenzene	<21		3010	2620		ug/Kg	☼	87	70 - 122
Bromochloromethane	<26		3010	2670		ug/Kg	☼	89	65 - 122
Bromodichloromethane	<22		3010	2650		ug/Kg	☼	88	69 - 120
Bromoform	<29		3010	2450		ug/Kg	☼	82	56 - 132
Bromomethane	<48		3010	2040		ug/Kg	☼	68	40 - 152
Carbon tetrachloride	<23		3010	2730		ug/Kg	☼	91	59 - 133
Chlorobenzene	<23		3010	2770		ug/Kg	☼	92	70 - 120
Chloroethane	<30		3010	2670		ug/Kg	☼	89	48 - 136
Chloroform	<22		3010	2620		ug/Kg	☼	87	70 - 120
Chloromethane	<19		3010	2420		ug/Kg	☼	80	56 - 152
2-Chlorotoluene	<19		3010	2670		ug/Kg	☼	89	70 - 125
4-Chlorotoluene	<21		3010	2600		ug/Kg	☼	86	68 - 124
cis-1,2-Dichloroethene	<25		3010	2820		ug/Kg	☼	94	70 - 125
cis-1,3-Dichloropropene	<25		3010	2500		ug/Kg	☼	83	64 - 127
Dibromochloromethane	<29		3010	2560		ug/Kg	☼	85	68 - 125
1,2-Dibromo-3-Chloropropane	<120		3010	1920		ug/Kg	☼	64	56 - 123
1,2-Dibromoethane (EDB)	<23		3010	2410		ug/Kg	☼	80	70 - 125
Dibromomethane	<16		3010	2540		ug/Kg	☼	84	70 - 120
1,2-Dichlorobenzene	<20		3010	2570		ug/Kg	☼	85	70 - 125
1,3-Dichlorobenzene	<24		3010	2600		ug/Kg	☼	86	70 - 125
1,4-Dichlorobenzene	<22		3010	2600		ug/Kg	☼	86	70 - 120
Dichlorodifluoromethane	<41		3010	1840		ug/Kg	☼	61	40 - 159
1,1-Dichloroethane	<25		3010	2640		ug/Kg	☼	88	70 - 125
1,2-Dichloroethane	<24		3010	2580		ug/Kg	☼	86	68 - 127
1,1-Dichloroethene	<23		3010	2830		ug/Kg	☼	94	67 - 122
1,2-Dichloropropane	<26		3010	2580		ug/Kg	☼	86	67 - 130
1,3-Dichloropropane	<22		3010	2470		ug/Kg	☼	82	62 - 136
2,2-Dichloropropane	<27		3010	2470		ug/Kg	☼	82	58 - 139
1,1-Dichloropropene	<18		3010	2720		ug/Kg	☼	90	70 - 121
Ethylbenzene	<11		3010	2650		ug/Kg	☼	88	70 - 123
Hexachlorobutadiene	<27		3010	2810		ug/Kg	☼	93	51 - 150
Isopropylbenzene	<23		3010	2700		ug/Kg	☼	90	70 - 126
Methylene Chloride	180	J B	3010	2750		ug/Kg	☼	85	69 - 125
Methyl tert-butyl ether	<24		3010	2400		ug/Kg	☼	80	55 - 123
Naphthalene	<20		3010	2030		ug/Kg	☼	68	53 - 144
n-Butylbenzene	<23		3010	2600		ug/Kg	☼	86	68 - 125
N-Propylbenzene	<25		3010	2750		ug/Kg	☼	91	69 - 127
p-Isopropyltoluene	<22		3010	2610		ug/Kg	☼	87	70 - 125
sec-Butylbenzene	<24		3010	2770		ug/Kg	☼	92	70 - 123
Styrene	<23		3010	2660		ug/Kg	☼	88	70 - 120
tert-Butylbenzene	<24		3010	2690		ug/Kg	☼	89	70 - 121
1,1,1,2-Tetrachloroethane	<28		3010	2530		ug/Kg	☼	84	70 - 125
1,1,1,2,2-Tetrachloroethane	<24		3010	2360		ug/Kg	☼	78	62 - 140
Tetrachloroethene	<22		3010	3090		ug/Kg	☼	103	70 - 128
Toluene	<8.8		3010	2710		ug/Kg	☼	90	70 - 125
trans-1,2-Dichloroethene	<21		3010	2740		ug/Kg	☼	91	70 - 125
trans-1,3-Dichloropropene	<22		3010	2300		ug/Kg	☼	76	62 - 128
1,2,3-Trichlorobenzene	<28		3010	2270		ug/Kg	☼	75	51 - 145
1,2,4-Trichlorobenzene	<21		3010	2410		ug/Kg	☼	80	57 - 137

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-220837-11 MSD
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: GP-3 (24-25)
Prep Type: Total/NA
Prep Batch: 670490

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	<22		3010	2570		ug/Kg	*	85	62 - 136	4	30
2,2-Dichloropropane	<27		3010	2570		ug/Kg	*	85	58 - 139	4	30
1,1-Dichloropropene	<18		3010	2730		ug/Kg	*	91	70 - 121	0	30
Ethylbenzene	<11		3010	2550		ug/Kg	*	85	70 - 123	4	30
Hexachlorobutadiene	<27		3010	2960		ug/Kg	*	98	51 - 150	5	30
Isopropylbenzene	<23		3010	2780		ug/Kg	*	92	70 - 126	3	30
Methylene Chloride	180	J B	3010	2950		ug/Kg	*	92	69 - 125	7	30
Methyl tert-butyl ether	<24		3010	2520		ug/Kg	*	84	55 - 123	5	30
Naphthalene	<20		3010	2260		ug/Kg	*	75	53 - 144	11	30
n-Butylbenzene	<23		3010	2660		ug/Kg	*	88	68 - 125	2	30
N-Propylbenzene	<25		3010	2800		ug/Kg	*	93	69 - 127	2	30
p-Isopropyltoluene	<22		3010	2690		ug/Kg	*	89	70 - 125	3	30
sec-Butylbenzene	<24		3010	2870		ug/Kg	*	95	70 - 123	4	30
Styrene	<23		3010	2680		ug/Kg	*	89	70 - 120	1	30
tert-Butylbenzene	<24		3010	2790		ug/Kg	*	93	70 - 121	3	30
1,1,1,2-Tetrachloroethane	<28		3010	2560		ug/Kg	*	85	70 - 125	1	30
1,1,2,2-Tetrachloroethane	<24		3010	2500		ug/Kg	*	83	62 - 140	6	30
Tetrachloroethene	<22		3010	3000		ug/Kg	*	100	70 - 128	3	30
Toluene	<8.8		3010	2720		ug/Kg	*	91	70 - 125	0	30
trans-1,2-Dichloroethene	<21		3010	2810		ug/Kg	*	93	70 - 125	3	30
trans-1,3-Dichloropropene	<22		3010	2320		ug/Kg	*	77	62 - 128	1	30
1,2,3-Trichlorobenzene	<28		3010	2470		ug/Kg	*	82	51 - 145	9	30
1,2,4-Trichlorobenzene	<21		3010	2530		ug/Kg	*	84	57 - 137	5	30
1,1,1-Trichloroethane	<23		3010	2780		ug/Kg	*	92	70 - 125	5	30
1,1,2-Trichloroethane	<21		3010	2590		ug/Kg	*	86	71 - 130	0	30
Trichloroethene	<9.9		3010	2810		ug/Kg	*	94	70 - 125	2	30
Trichlorofluoromethane	<26		3010	2450		ug/Kg	*	82	55 - 128	5	30
1,2,3-Trichloropropane	<25		3010	2390		ug/Kg	*	79	50 - 133	2	30
1,2,4-Trimethylbenzene	<22		3010	2780		ug/Kg	*	92	70 - 123	3	30
1,3,5-Trimethylbenzene	<23		3010	2800		ug/Kg	*	93	70 - 123	4	30
Vinyl chloride	<16		3010	2250		ug/Kg	*	75	64 - 126	1	30
Xylenes, Total	<13		6020	5430		ug/Kg	*	90	70 - 125	0	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	90		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: LB3 500-670503/19-A
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670503

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Bromobenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Bromochloromethane	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Bromodichloromethane	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-670503/19-A
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670503

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromoform	<24		50	24	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Bromomethane	<40		150	40	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Chlorobenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Chloroethane	<25		50	25	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Chloroform	<19		100	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Chloromethane	<16		50	16	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Dibromochloromethane	<24		50	24	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2-Dibromoethane (EDB)	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Dibromomethane	<14		50	14	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Isopropylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Isopropyl ether	<14		50	14	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Methylene Chloride	<82		250	82	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Naphthalene	20.3	J	50	17	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
n-Butylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
N-Propylbenzene	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Styrene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Tetrachloroethene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Toluene	<7.4		13	7.4	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-670503/19-A
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670503

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	<8.2		25	8.2	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Vinyl chloride	<13		50	13	ug/Kg		08/17/22 12:15	08/25/22 12:26	50
Xylenes, Total	<11		25	11	ug/Kg		08/17/22 12:15	08/25/22 12:26	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		72 - 124	08/17/22 12:15	08/25/22 12:26	50
Dibromofluoromethane (Surr)	92		75 - 120	08/17/22 12:15	08/25/22 12:26	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	08/17/22 12:15	08/25/22 12:26	50
Toluene-d8 (Surr)	102		75 - 120	08/17/22 12:15	08/25/22 12:26	50

Lab Sample ID: LCS 500-670503/20-A
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670503

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2560		ug/Kg		102	70 - 120
Bromobenzene	2500	2420		ug/Kg		97	70 - 122
Bromochloromethane	2500	2380		ug/Kg		95	65 - 122
Bromodichloromethane	2500	2410		ug/Kg		96	69 - 120
Bromoform	2500	2340		ug/Kg		93	56 - 132
Bromomethane	2500	1520		ug/Kg		61	40 - 152
Carbon tetrachloride	2500	2510		ug/Kg		101	59 - 133
Chlorobenzene	2500	2460		ug/Kg		98	70 - 120
Chloroethane	2500	2080		ug/Kg		83	48 - 136
Chloroform	2500	2370		ug/Kg		95	70 - 120
Chloromethane	2500	1440		ug/Kg		58	56 - 152
2-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
4-Chlorotoluene	2500	2410		ug/Kg		97	68 - 124
cis-1,2-Dichloroethene	2500	2470		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	2500	2310		ug/Kg		92	64 - 127
Dibromochloromethane	2500	2360		ug/Kg		95	68 - 125
1,2-Dibromo-3-Chloropropane	2500	1780		ug/Kg		71	56 - 123
1,2-Dibromoethane (EDB)	2500	2260		ug/Kg		90	70 - 125
Dibromomethane	2500	2240		ug/Kg		90	70 - 120
1,2-Dichlorobenzene	2500	2340		ug/Kg		94	70 - 125
1,3-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
1,4-Dichlorobenzene	2500	2420		ug/Kg		97	70 - 120
Dichlorodifluoromethane	2500	926	*	ug/Kg		37	40 - 159
1,1-Dichloroethane	2500	2380		ug/Kg		95	70 - 125
1,2-Dichloroethane	2500	2320		ug/Kg		93	68 - 127
1,1-Dichloroethene	2500	2520		ug/Kg		101	67 - 122
1,2-Dichloropropane	2500	2360		ug/Kg		94	67 - 130
1,3-Dichloropropane	2500	2250		ug/Kg		90	62 - 136
2,2-Dichloropropane	2500	2360		ug/Kg		94	58 - 139

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-670503/20-A
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	2500	2520		ug/Kg		101	70 - 121
Ethylbenzene	2500	2370		ug/Kg		95	70 - 123
Hexachlorobutadiene	2500	2750		ug/Kg		110	51 - 150
Isopropylbenzene	2500	2470		ug/Kg		99	70 - 126
Methylene Chloride	2500	2450		ug/Kg		98	69 - 125
Methyl tert-butyl ether	2500	2200		ug/Kg		88	55 - 123
Naphthalene	2500	1790		ug/Kg		72	53 - 144
n-Butylbenzene	2500	2560		ug/Kg		102	68 - 125
N-Propylbenzene	2500	2570		ug/Kg		103	69 - 127
p-Isopropyltoluene	2500	2470		ug/Kg		99	70 - 125
sec-Butylbenzene	2500	2590		ug/Kg		104	70 - 123
Styrene	2500	2440		ug/Kg		97	70 - 120
tert-Butylbenzene	2500	2450		ug/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	2500	2240		ug/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	2500	2110		ug/Kg		85	62 - 140
Tetrachloroethene	2500	2870		ug/Kg		115	70 - 128
Toluene	2500	2490		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	2500	2460		ug/Kg		98	70 - 125
trans-1,3-Dichloropropene	2500	2150		ug/Kg		86	62 - 128
1,2,3-Trichlorobenzene	2500	2130		ug/Kg		85	51 - 145
1,2,4-Trichlorobenzene	2500	2280		ug/Kg		91	57 - 137
1,1,1-Trichloroethane	2500	2480		ug/Kg		99	70 - 125
1,1,2-Trichloroethane	2500	2330		ug/Kg		93	71 - 130
Trichloroethene	2500	2470		ug/Kg		99	70 - 125
Trichlorofluoromethane	2500	2260		ug/Kg		90	55 - 128
1,2,3-Trichloropropane	2500	2140		ug/Kg		86	50 - 133
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		100	70 - 123
1,3,5-Trimethylbenzene	2500	2450		ug/Kg		98	70 - 123
Vinyl chloride	2500	1680		ug/Kg		67	64 - 126
Xylenes, Total	5000	4950		ug/Kg		99	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	90		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: MB 500-671234/6
Matrix: Solid
Analysis Batch: 671234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/23/22 10:21	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/23/22 10:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/23/22 10:21	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/23/22 10:21	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/23/22 10:21	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671234/6
Matrix: Solid
Analysis Batch: 671234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/23/22 10:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/23/22 10:21	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/23/22 10:21	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/23/22 10:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/23/22 10:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/23/22 10:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/23/22 10:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/23/22 10:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/23/22 10:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/23/22 10:21	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/23/22 10:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/23/22 10:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/23/22 10:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/23/22 10:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/23/22 10:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/23/22 10:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/23/22 10:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/23/22 10:21	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/23/22 10:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/23/22 10:21	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/23/22 10:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/23/22 10:21	1
Methylene Chloride	9.34		5.0	1.6	ug/Kg			08/23/22 10:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
Naphthalene	0.564	J	1.0	0.33	ug/Kg			08/23/22 10:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/23/22 10:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/23/22 10:21	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/23/22 10:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/23/22 10:21	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/23/22 10:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/23/22 10:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/23/22 10:21	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/23/22 10:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/23/22 10:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
1,2,3-Trichlorobenzene	0.464	J	1.0	0.46	ug/Kg			08/23/22 10:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/23/22 10:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/23/22 10:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/23/22 10:21	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/23/22 10:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/23/22 10:21	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671234/6
Matrix: Solid
Analysis Batch: 671234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/23/22 10:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/23/22 10:21	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/23/22 10:21	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/23/22 10:21	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/23/22 10:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	87		72 - 124		08/23/22 10:21	1
Dibromofluoromethane (Surr)	94		75 - 120		08/23/22 10:21	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		08/23/22 10:21	1
Toluene-d8 (Surr)	102		75 - 120		08/23/22 10:21	1

Lab Sample ID: LCS 500-671234/4
Matrix: Solid
Analysis Batch: 671234

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	49.3		ug/Kg		99	70 - 120
Bromobenzene	50.0	47.0		ug/Kg		94	70 - 122
Bromochloromethane	50.0	46.2		ug/Kg		92	65 - 122
Bromodichloromethane	50.0	46.9		ug/Kg		94	69 - 120
Bromoform	50.0	46.2		ug/Kg		92	56 - 132
Bromomethane	50.0	62.8		ug/Kg		126	40 - 152
Carbon tetrachloride	50.0	53.1		ug/Kg		106	59 - 133
Chlorobenzene	50.0	48.7		ug/Kg		97	70 - 120
Chloroethane	50.0	64.2		ug/Kg		128	48 - 136
Chloroform	50.0	46.2		ug/Kg		92	70 - 120
Chloromethane	50.0	41.3		ug/Kg		83	56 - 152
2-Chlorotoluene	50.0	48.4		ug/Kg		97	70 - 125
4-Chlorotoluene	50.0	47.6		ug/Kg		95	68 - 124
cis-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	50.0	44.9		ug/Kg		90	64 - 127
Dibromochloromethane	50.0	46.7		ug/Kg		93	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/Kg		75	56 - 123
1,2-Dibromoethane (EDB)	50.0	41.5		ug/Kg		83	70 - 125
Dibromomethane	50.0	43.7		ug/Kg		87	70 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 125
1,3-Dichlorobenzene	50.0	47.0		ug/Kg		94	70 - 125
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	70 - 120
Dichlorodifluoromethane	50.0	37.5		ug/Kg		75	40 - 159
1,1-Dichloroethane	50.0	46.3		ug/Kg		93	70 - 125
1,2-Dichloroethane	50.0	43.7		ug/Kg		87	68 - 127
1,1-Dichloroethene	50.0	53.0		ug/Kg		106	67 - 122
1,2-Dichloropropane	50.0	45.2		ug/Kg		90	67 - 130
1,3-Dichloropropane	50.0	43.7		ug/Kg		87	62 - 136
2,2-Dichloropropane	50.0	47.3		ug/Kg		95	58 - 139
1,1-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 121
Ethylbenzene	50.0	47.0		ug/Kg		94	70 - 123

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671234/4
Matrix: Solid
Analysis Batch: 671234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	50.0	56.2		ug/Kg		112	51 - 150
Isopropylbenzene	50.0	49.9		ug/Kg		100	70 - 126
Methylene Chloride	50.0	56.0		ug/Kg		112	69 - 125
Methyl tert-butyl ether	50.0	42.2		ug/Kg		84	55 - 123
Naphthalene	50.0	35.8		ug/Kg		72	53 - 144
n-Butylbenzene	50.0	51.3		ug/Kg		103	68 - 125
N-Propylbenzene	50.0	51.1		ug/Kg		102	69 - 127
p-Isopropyltoluene	50.0	50.3		ug/Kg		101	70 - 125
sec-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 123
Styrene	50.0	47.1		ug/Kg		94	70 - 120
tert-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.6		ug/Kg		85	62 - 140
Tetrachloroethene	50.0	58.9		ug/Kg		118	70 - 128
Toluene	50.0	48.6		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,3-Dichloropropene	50.0	40.9		ug/Kg		82	62 - 128
1,2,3-Trichlorobenzene	50.0	43.2		ug/Kg		86	51 - 145
1,2,4-Trichlorobenzene	50.0	45.0		ug/Kg		90	57 - 137
1,1,1-Trichloroethane	50.0	50.2		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	45.3		ug/Kg		91	71 - 130
Trichloroethene	50.0	49.7		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	53.4		ug/Kg		107	55 - 128
1,2,3-Trichloropropane	50.0	40.3		ug/Kg		81	50 - 133
1,2,4-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 123
1,3,5-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 123
Vinyl chloride	50.0	42.7		ug/Kg		85	64 - 126
Xylenes, Total	100	97.5		ug/Kg		98	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	88		75 - 126
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: MB 500-671503/6
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/24/22 16:43	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/24/22 16:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/24/22 16:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/24/22 16:43	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/24/22 16:43	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/24/22 16:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/24/22 16:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671503/6
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/24/22 16:43	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/24/22 16:43	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/24/22 16:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/24/22 16:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/24/22 16:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/24/22 16:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/24/22 16:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/24/22 16:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/24/22 16:43	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/24/22 16:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/24/22 16:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/24/22 16:43	1
1,4-Dichlorobenzene	0.410	J	1.0	0.36	ug/Kg			08/24/22 16:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/24/22 16:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/24/22 16:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/24/22 16:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/24/22 16:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/24/22 16:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/24/22 16:43	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/24/22 16:43	1
Hexachlorobutadiene	0.777	J	1.0	0.45	ug/Kg			08/24/22 16:43	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/24/22 16:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/24/22 16:43	1
Methylene Chloride	6.07		5.0	1.6	ug/Kg			08/24/22 16:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1
Naphthalene	1.08		1.0	0.33	ug/Kg			08/24/22 16:43	1
n-Butylbenzene	0.395	J	1.0	0.39	ug/Kg			08/24/22 16:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/24/22 16:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/24/22 16:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/24/22 16:43	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/24/22 16:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/24/22 16:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/24/22 16:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/24/22 16:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/24/22 16:43	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/24/22 16:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/24/22 16:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/24/22 16:43	1
1,2,3-Trichlorobenzene	1.39		1.0	0.46	ug/Kg			08/24/22 16:43	1
1,2,4-Trichlorobenzene	0.928	J	1.0	0.34	ug/Kg			08/24/22 16:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/24/22 16:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/24/22 16:43	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/24/22 16:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/24/22 16:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/24/22 16:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/24/22 16:43	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671503/6
Matrix: Solid
Analysis Batch: 671503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/24/22 16:43	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/24/22 16:43	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/24/22 16:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		72 - 124		08/24/22 16:43	1
Dibromofluoromethane (Surr)	92		75 - 120		08/24/22 16:43	1
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		08/24/22 16:43	1
Toluene-d8 (Surr)	102		75 - 120		08/24/22 16:43	1

Lab Sample ID: LCS 500-671503/12
Matrix: Solid
Analysis Batch: 671503

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	54.5		ug/Kg		109	70 - 120
Bromobenzene	50.0	51.9		ug/Kg		104	70 - 122
Bromochloromethane	50.0	51.8		ug/Kg		104	65 - 122
Bromodichloromethane	50.0	51.8		ug/Kg		104	69 - 120
Bromoform	50.0	48.3		ug/Kg		97	56 - 132
Bromomethane	50.0	33.2		ug/Kg		66	40 - 152
Carbon tetrachloride	50.0	55.5		ug/Kg		111	59 - 133
Chlorobenzene	50.0	52.4		ug/Kg		105	70 - 120
Chloroethane	50.0	46.0		ug/Kg		92	48 - 136
Chloroform	50.0	51.5		ug/Kg		103	70 - 120
Chloromethane	50.0	38.2		ug/Kg		76	56 - 152
2-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 125
4-Chlorotoluene	50.0	51.9		ug/Kg		104	68 - 124
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	49.6		ug/Kg		99	64 - 127
Dibromochloromethane	50.0	49.4		ug/Kg		99	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.2		ug/Kg		80	56 - 123
1,2-Dibromoethane (EDB)	50.0	46.3		ug/Kg		93	70 - 125
Dibromomethane	50.0	47.1		ug/Kg		94	70 - 120
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 125
1,4-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 120
Dichlorodifluoromethane	50.0	36.3		ug/Kg		73	40 - 159
1,1-Dichloroethane	50.0	51.3		ug/Kg		103	70 - 125
1,2-Dichloroethane	50.0	49.5		ug/Kg		99	68 - 127
1,1-Dichloroethene	50.0	55.8		ug/Kg		112	67 - 122
1,2-Dichloropropane	50.0	49.7		ug/Kg		99	67 - 130
1,3-Dichloropropane	50.0	48.0		ug/Kg		96	62 - 136
2,2-Dichloropropane	50.0	51.0		ug/Kg		102	58 - 139
1,1-Dichloropropene	50.0	55.5		ug/Kg		111	70 - 121
Ethylbenzene	50.0	50.1		ug/Kg		100	70 - 123
Hexachlorobutadiene	50.0	61.3		ug/Kg		123	51 - 150
Isopropylbenzene	50.0	53.9		ug/Kg		108	70 - 126

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671503/12
Matrix: Solid
Analysis Batch: 671503

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	50.0	58.6		ug/Kg		117	69 - 125
Methyl tert-butyl ether	50.0	47.2		ug/Kg		94	55 - 123
Naphthalene	50.0	41.3		ug/Kg		83	53 - 144
n-Butylbenzene	50.0	54.6		ug/Kg		109	68 - 125
N-Propylbenzene	50.0	55.6		ug/Kg		111	69 - 127
p-Isopropyltoluene	50.0	54.3		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	57.3		ug/Kg		115	70 - 123
Styrene	50.0	51.2		ug/Kg		102	70 - 120
tert-Butylbenzene	50.0	55.0		ug/Kg		110	70 - 121
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/Kg		94	62 - 140
Tetrachloroethene	50.0	61.3		ug/Kg		123	70 - 128
Toluene	50.0	52.1		ug/Kg		104	70 - 125
trans-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	62 - 128
1,2,3-Trichlorobenzene	50.0	48.2		ug/Kg		96	51 - 145
1,2,4-Trichlorobenzene	50.0	51.0		ug/Kg		102	57 - 137
1,1,1-Trichloroethane	50.0	55.0		ug/Kg		110	70 - 125
1,1,2-Trichloroethane	50.0	49.3		ug/Kg		99	71 - 130
Trichloroethene	50.0	53.9		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	46.6		ug/Kg		93	55 - 128
1,2,3-Trichloropropane	50.0	44.6		ug/Kg		89	50 - 133
1,2,4-Trimethylbenzene	50.0	53.3		ug/Kg		107	70 - 123
1,3,5-Trimethylbenzene	50.0	53.4		ug/Kg		107	70 - 123
Vinyl chloride	50.0	39.4		ug/Kg		79	64 - 126
Xylenes, Total	100	105		ug/Kg		105	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	89		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-671627/6
Matrix: Solid
Analysis Batch: 671627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
2-Butanone (MEK)	<0.0025		0.0050	0.0025	mg/L			08/25/22 10:46	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			08/25/22 10:46	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			08/25/22 10:46	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671627/6
Matrix: Solid
Analysis Batch: 671627

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		72 - 124		08/25/22 10:46	1
Dibromofluoromethane (Surr)	103		75 - 120		08/25/22 10:46	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		08/25/22 10:46	1
Toluene-d8 (Surr)	100		75 - 120		08/25/22 10:46	1

Lab Sample ID: LCS 500-671627/4
Matrix: Solid
Analysis Batch: 671627

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0467		mg/L		93	70 - 120
Carbon tetrachloride	0.0500	0.0585		mg/L		117	59 - 133
Chlorobenzene	0.0500	0.0457		mg/L		91	70 - 120
2-Butanone (MEK)	0.0500	0.0350		mg/L		70	46 - 144
Chloroform	0.0500	0.0514		mg/L		103	70 - 120
1,2-Dichloroethane	0.0500	0.0531		mg/L		106	68 - 127
1,1-Dichloroethene	0.0500	0.0514		mg/L		103	67 - 122
Tetrachloroethene	0.0500	0.0479		mg/L		96	70 - 128
Trichloroethene	0.0500	0.0462		mg/L		92	70 - 125
Vinyl chloride	0.0500	0.0496		mg/L		99	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		72 - 124
Dibromofluoromethane (Surr)	111		75 - 120
1,2-Dichloroethane-d4 (Surr)	114		75 - 126
Toluene-d8 (Surr)	105		75 - 120

Lab Sample ID: MB 500-671641/6
Matrix: Solid
Analysis Batch: 671641

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/25/22 10:46	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/25/22 10:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/25/22 10:46	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/25/22 10:46	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/25/22 10:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/25/22 10:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/25/22 10:46	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/25/22 10:46	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/25/22 10:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/25/22 10:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/25/22 10:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/25/22 10:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/25/22 10:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/25/22 10:46	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671641/6
Matrix: Solid
Analysis Batch: 671641

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/25/22 10:46	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/25/22 10:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/25/22 10:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 10:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/25/22 10:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/25/22 10:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/25/22 10:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/25/22 10:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/25/22 10:46	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/25/22 10:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/25/22 10:46	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/25/22 10:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/25/22 10:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/25/22 10:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/25/22 10:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/25/22 10:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 10:46	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/25/22 10:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 10:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/25/22 10:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/25/22 10:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/25/22 10:46	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/25/22 10:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/25/22 10:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/25/22 10:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/25/22 10:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/25/22 10:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/25/22 10:46	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/25/22 10:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/25/22 10:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/25/22 10:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 10:46	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/25/22 10:46	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/25/22 10:46	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/25/22 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		72 - 124		08/25/22 10:46	1
Dibromofluoromethane (Surr)	102		75 - 120		08/25/22 10:46	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671641/6
Matrix: Solid
Analysis Batch: 671641

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		08/25/22 10:46	1
Toluene-d8 (Surr)	99		75 - 120		08/25/22 10:46	1

Lab Sample ID: LCS 500-671641/10
Matrix: Solid
Analysis Batch: 671641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	44.4		ug/Kg		89	70 - 120
Bromobenzene	50.0	50.0		ug/Kg		100	70 - 122
Bromochloromethane	50.0	45.8		ug/Kg		92	65 - 122
Bromodichloromethane	50.0	45.9		ug/Kg		92	69 - 120
Bromoform	50.0	49.5		ug/Kg		99	56 - 132
Bromomethane	50.0	37.1		ug/Kg		74	40 - 152
Carbon tetrachloride	50.0	46.4		ug/Kg		93	59 - 133
Chlorobenzene	50.0	45.8		ug/Kg		92	70 - 120
Chloroethane	50.0	28.8		ug/Kg		58	48 - 136
Chloroform	50.0	40.5		ug/Kg		81	70 - 120
Chloromethane	50.0	54.6		ug/Kg		109	56 - 152
2-Chlorotoluene	50.0	45.4		ug/Kg		91	70 - 125
4-Chlorotoluene	50.0	45.0		ug/Kg		90	68 - 124
cis-1,2-Dichloroethene	50.0	41.2		ug/Kg		82	70 - 125
cis-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	64 - 127
Dibromochloromethane	50.0	46.9		ug/Kg		94	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	38.0		ug/Kg		76	56 - 123
1,2-Dibromoethane (EDB)	50.0	45.0		ug/Kg		90	70 - 125
Dibromomethane	50.0	44.3		ug/Kg		89	70 - 120
1,2-Dichlorobenzene	50.0	44.0		ug/Kg		88	70 - 125
1,3-Dichlorobenzene	50.0	45.8		ug/Kg		92	70 - 125
1,4-Dichlorobenzene	50.0	44.4		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	48.0		ug/Kg		96	40 - 159
1,1-Dichloroethane	50.0	41.3		ug/Kg		83	70 - 125
1,2-Dichloroethane	50.0	45.0		ug/Kg		90	68 - 127
1,1-Dichloroethene	50.0	39.2		ug/Kg		78	67 - 122
1,2-Dichloropropane	50.0	48.4		ug/Kg		97	67 - 130
1,3-Dichloropropane	50.0	44.6		ug/Kg		89	62 - 136
2,2-Dichloropropane	50.0	41.8		ug/Kg		84	58 - 139
1,1-Dichloropropene	50.0	45.4		ug/Kg		91	70 - 121
Ethylbenzene	50.0	46.4		ug/Kg		93	70 - 123
Hexachlorobutadiene	50.0	49.1		ug/Kg		98	51 - 150
Isopropylbenzene	50.0	46.5		ug/Kg		93	70 - 126
Methylene Chloride	50.0	40.4		ug/Kg		81	69 - 125
Methyl tert-butyl ether	50.0	37.8		ug/Kg		76	55 - 123
Naphthalene	50.0	41.7		ug/Kg		83	53 - 144
n-Butylbenzene	50.0	41.3		ug/Kg		83	68 - 125
N-Propylbenzene	50.0	46.5		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	45.5		ug/Kg		91	70 - 125
sec-Butylbenzene	50.0	43.8		ug/Kg		88	70 - 123

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671641/10
Matrix: Solid
Analysis Batch: 671641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	50.0	46.7		ug/Kg		93	70 - 120
tert-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/Kg		94	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.4		ug/Kg		81	62 - 140
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 128
Toluene	50.0	46.8		ug/Kg		94	70 - 125
trans-1,2-Dichloroethene	50.0	40.6		ug/Kg		81	70 - 125
trans-1,3-Dichloropropene	50.0	45.1		ug/Kg		90	62 - 128
1,2,3-Trichlorobenzene	50.0	44.0		ug/Kg		88	51 - 145
1,2,4-Trichlorobenzene	50.0	43.3		ug/Kg		87	57 - 137
1,1,1-Trichloroethane	50.0	43.8		ug/Kg		88	70 - 125
1,1,2-Trichloroethane	50.0	45.7		ug/Kg		91	71 - 130
Trichloroethene	50.0	50.3		ug/Kg		101	70 - 125
Trichlorofluoromethane	50.0	39.9		ug/Kg		80	55 - 128
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	50 - 133
1,2,4-Trimethylbenzene	50.0	45.3		ug/Kg		91	70 - 123
1,3,5-Trimethylbenzene	50.0	45.9		ug/Kg		92	70 - 123
Vinyl chloride	50.0	52.3		ug/Kg		105	64 - 126
Xylenes, Total	100	94.3		ug/Kg		94	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-671668/6
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/25/22 12:03	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/25/22 12:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/25/22 12:03	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/25/22 12:03	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/25/22 12:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/25/22 12:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/25/22 12:03	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/25/22 12:03	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/25/22 12:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/25/22 12:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/25/22 12:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/25/22 12:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/25/22 12:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/25/22 12:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/25/22 12:03	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671668/6
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/25/22 12:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/25/22 12:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 12:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/25/22 12:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/25/22 12:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/25/22 12:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/25/22 12:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/25/22 12:03	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/25/22 12:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/25/22 12:03	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/25/22 12:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/25/22 12:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/25/22 12:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
Naphthalene	0.770	J	1.0	0.33	ug/Kg			08/25/22 12:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/25/22 12:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 12:03	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/25/22 12:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/25/22 12:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/25/22 12:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/25/22 12:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/25/22 12:03	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/25/22 12:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/25/22 12:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
1,2,3-Trichlorobenzene	0.716	J	1.0	0.46	ug/Kg			08/25/22 12:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/25/22 12:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/25/22 12:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/25/22 12:03	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/25/22 12:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/25/22 12:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/25/22 12:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/25/22 12:03	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/25/22 12:03	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/25/22 12:03	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/25/22 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124		08/25/22 12:03	1
Dibromofluoromethane (Surr)	92		75 - 120		08/25/22 12:03	1
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		08/25/22 12:03	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671668/6
Matrix: Solid
Analysis Batch: 671668

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	100		75 - 120		08/25/22 12:03	1

Lab Sample ID: LCS 500-671668/4
Matrix: Solid
Analysis Batch: 671668

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	46.0		ug/Kg		92	70 - 120
Bromobenzene	50.0	44.6		ug/Kg		89	70 - 122
Bromochloromethane	50.0	42.0		ug/Kg		84	65 - 122
Bromodichloromethane	50.0	43.0		ug/Kg		86	69 - 120
Bromoform	50.0	41.2		ug/Kg		82	56 - 132
Bromomethane	50.0	29.8		ug/Kg		60	40 - 152
Carbon tetrachloride	50.0	47.8		ug/Kg		96	59 - 133
Chlorobenzene	50.0	45.3		ug/Kg		91	70 - 120
Chloroethane	50.0	42.1		ug/Kg		84	48 - 136
Chloroform	50.0	41.9		ug/Kg		84	70 - 120
Chloromethane	50.0	36.3		ug/Kg		73	56 - 152
2-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 125
4-Chlorotoluene	50.0	45.2		ug/Kg		90	68 - 124
cis-1,2-Dichloroethene	50.0	45.2		ug/Kg		90	70 - 125
cis-1,3-Dichloropropene	50.0	42.2		ug/Kg		84	64 - 127
Dibromochloromethane	50.0	42.0		ug/Kg		84	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	34.9		ug/Kg		70	56 - 123
1,2-Dibromoethane (EDB)	50.0	39.3		ug/Kg		79	70 - 125
Dibromomethane	50.0	40.0		ug/Kg		80	70 - 120
1,2-Dichlorobenzene	50.0	43.3		ug/Kg		87	70 - 125
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 125
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	37.6		ug/Kg		75	40 - 159
1,1-Dichloroethane	50.0	42.7		ug/Kg		85	70 - 125
1,2-Dichloroethane	50.0	39.4		ug/Kg		79	68 - 127
1,1-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 122
1,2-Dichloropropane	50.0	42.9		ug/Kg		86	67 - 130
1,3-Dichloropropane	50.0	40.6		ug/Kg		81	62 - 136
2,2-Dichloropropane	50.0	42.8		ug/Kg		86	58 - 139
1,1-Dichloropropene	50.0	46.7		ug/Kg		93	70 - 121
Ethylbenzene	50.0	43.6		ug/Kg		87	70 - 123
Hexachlorobutadiene	50.0	52.5		ug/Kg		105	51 - 150
Isopropylbenzene	50.0	47.0		ug/Kg		94	70 - 126
Methylene Chloride	50.0	43.4		ug/Kg		87	69 - 125
Methyl tert-butyl ether	50.0	37.8		ug/Kg		76	55 - 123
Naphthalene	50.0	34.9		ug/Kg		70	53 - 144
n-Butylbenzene	50.0	48.4		ug/Kg		97	68 - 125
N-Propylbenzene	50.0	49.1		ug/Kg		98	69 - 127
p-Isopropyltoluene	50.0	46.5		ug/Kg		93	70 - 125
sec-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 123
Styrene	50.0	44.8		ug/Kg		90	70 - 120

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671668/4
Matrix: Solid
Analysis Batch: 671668

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	41.1		ug/Kg		82	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.0		ug/Kg		78	62 - 140
Tetrachloroethene	50.0	52.9		ug/Kg		106	70 - 128
Toluene	50.0	44.9		ug/Kg		90	70 - 125
trans-1,2-Dichloroethene	50.0	45.6		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	50.0	38.9		ug/Kg		78	62 - 128
1,2,3-Trichlorobenzene	50.0	41.5		ug/Kg		83	51 - 145
1,2,4-Trichlorobenzene	50.0	44.2		ug/Kg		88	57 - 137
1,1,1-Trichloroethane	50.0	45.6		ug/Kg		91	70 - 125
1,1,2-Trichloroethane	50.0	42.3		ug/Kg		85	71 - 130
Trichloroethene	50.0	46.5		ug/Kg		93	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	55 - 128
1,2,3-Trichloropropane	50.0	36.6		ug/Kg		73	50 - 133
1,2,4-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 123
1,3,5-Trimethylbenzene	50.0	46.4		ug/Kg		93	70 - 123
Vinyl chloride	50.0	40.3		ug/Kg		81	64 - 126
Xylenes, Total	100	90.7		ug/Kg		91	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane (Surr)	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: LB 500-671603/1-A
Matrix: Solid
Analysis Batch: 671627

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			08/25/22 11:10	20
Chloroform	<0.020		0.040	0.020	mg/L			08/25/22 11:10	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/25/22 11:10	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		08/25/22 11:10	20
Dibromofluoromethane (Surr)	111		75 - 120		08/25/22 11:10	20
1,2-Dichloroethane-d4 (Surr)	115		75 - 126		08/25/22 11:10	20
Toluene-d8 (Surr)	103		75 - 120		08/25/22 11:10	20

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-671397/1-A
Matrix: Solid
Analysis Batch: 671948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Anthracene	<5.6		33	5.6	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Chrysene	<9.1		33	9.1	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Fluorene	<4.7		33	4.7	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
Pyrene	<6.6		33	6.6	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/24/22 07:02	08/26/22 15:03	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/24/22 07:02	08/26/22 15:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	75		37 - 147	08/24/22 07:02	08/26/22 15:03	1
Terphenyl-d14 (Surr)	103		42 - 157	08/24/22 07:02	08/26/22 15:03	1
2-Fluorobiphenyl (Surr)	90		43 - 145	08/24/22 07:02	08/26/22 15:03	1

Lab Sample ID: LCS 500-671397/2-A
Matrix: Solid
Analysis Batch: 671948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1330	1340		ug/Kg		101	65 - 124
Acenaphthylene	1330	1150		ug/Kg		86	68 - 120
Anthracene	1330	1320		ug/Kg		99	70 - 114
Benzo[a]anthracene	1330	1220		ug/Kg		91	67 - 122
Benzo[a]pyrene	1330	1420		ug/Kg		107	65 - 133
Benzo[b]fluoranthene	1330	1190		ug/Kg		89	69 - 129
Benzo[g,h,i]perylene	1330	1200		ug/Kg		90	72 - 131
Benzo[k]fluoranthene	1330	1350		ug/Kg		101	68 - 127
Chrysene	1330	1270		ug/Kg		95	63 - 120
Dibenz(a,h)anthracene	1330	1210		ug/Kg		91	64 - 131
Fluoranthene	1330	1370		ug/Kg		103	62 - 120
Fluorene	1330	1160		ug/Kg		87	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1150		ug/Kg		86	68 - 130
Naphthalene	1330	1230		ug/Kg		93	63 - 110
Phenanthrene	1330	1290		ug/Kg		97	62 - 120
Pyrene	1330	1290		ug/Kg		97	61 - 128
1-Methylnaphthalene	1330	1260		ug/Kg		94	68 - 111
2-Methylnaphthalene	1330	1180		ug/Kg		88	69 - 112

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671397/2-A
Matrix: Solid
Analysis Batch: 671948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671397

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	93		37 - 147
Terphenyl-d14 (Surr)	95		42 - 157
2-Fluorobiphenyl (Surr)	102		43 - 145

Lab Sample ID: MB 500-671612/1-A
Matrix: Solid
Analysis Batch: 672142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671612

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<6.0		33	6.0	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Anthracene	<5.6		33	5.6	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Chrysene	<9.1		33	9.1	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Fluorene	<4.7		33	4.7	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
Pyrene	<6.6		33	6.6	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/25/22 07:09	08/29/22 16:04	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/25/22 07:09	08/29/22 16:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	62		37 - 147	08/25/22 07:09	08/29/22 16:04	1
Terphenyl-d14 (Surr)	132		42 - 157	08/25/22 07:09	08/29/22 16:04	1
2-Fluorobiphenyl (Surr)	88		43 - 145	08/25/22 07:09	08/29/22 16:04	1

Lab Sample ID: LCS 500-671612/2-A
Matrix: Solid
Analysis Batch: 672142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671612

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acenaphthene	1330	1400		ug/Kg		105	65 - 124
Acenaphthylene	1330	1320		ug/Kg		99	68 - 120
Anthracene	1330	1380		ug/Kg		104	70 - 114
Benzo[a]anthracene	1330	1270		ug/Kg		96	67 - 122
Benzo[a]pyrene	1330	1320		ug/Kg		99	65 - 133
Benzo[b]fluoranthene	1330	1240		ug/Kg		93	69 - 129
Benzo[g,h,i]perylene	1330	1330		ug/Kg		100	72 - 131
Benzo[k]fluoranthene	1330	1260		ug/Kg		95	68 - 127
Chrysene	1330	1290		ug/Kg		96	63 - 120
Dibenz(a,h)anthracene	1330	1390		ug/Kg		105	64 - 131

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-671612/2-A
Matrix: Solid
Analysis Batch: 672142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1330	1320		ug/Kg		99	62 - 120
Fluorene	1330	1250		ug/Kg		94	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1320		ug/Kg		99	68 - 130
Naphthalene	1330	1310		ug/Kg		98	63 - 110
Phenanthrene	1330	1330		ug/Kg		100	62 - 120
Pyrene	1330	1390		ug/Kg		104	61 - 128
1-Methylnaphthalene	1330	1310		ug/Kg		98	68 - 111
2-Methylnaphthalene	1330	1300		ug/Kg		98	69 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	56		37 - 147
Terphenyl-d14 (Surr)	97		42 - 157
2-Fluorobiphenyl (Surr)	112		43 - 145

Lab Sample ID: 500-220837-1 MS
Matrix: Solid
Analysis Batch: 672142

Client Sample ID: GP-7 (2-4)
Prep Type: Total/NA
Prep Batch: 671612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	13	J	1560	1490		ug/Kg	✱	95	65 - 124
Acenaphthylene	5.3	J	1560	1430		ug/Kg	✱	91	68 - 120
Anthracene	35	J	1560	1600		ug/Kg	✱	100	70 - 114
Benzo[a]anthracene	91		1560	1600		ug/Kg	✱	96	67 - 122
Benzo[a]pyrene	86		1560	1660		ug/Kg	✱	101	65 - 133
Benzo[b]fluoranthene	81		1560	1580		ug/Kg	✱	96	69 - 129
Benzo[g,h,i]perylene	54		1560	1430		ug/Kg	✱	88	72 - 131
Benzo[k]fluoranthene	44		1560	1490		ug/Kg	✱	93	68 - 127
Chrysene	86		1560	1520		ug/Kg	✱	91	63 - 120
Dibenz(a,h)anthracene	13	J	1560	1470		ug/Kg	✱	93	64 - 131
Fluoranthene	190		1560	1850		ug/Kg	✱	107	62 - 120
Fluorene	12	J	1560	1360		ug/Kg	✱	87	62 - 120
Indeno[1,2,3-cd]pyrene	49		1560	1440		ug/Kg	✱	89	68 - 130
Naphthalene	17	J	1560	1410		ug/Kg	✱	89	63 - 110
Phenanthrene	160		1560	1850		ug/Kg	✱	109	62 - 120
Pyrene	250		1560	1880		ug/Kg	✱	104	61 - 128
1-Methylnaphthalene	14	J	1560	1420		ug/Kg	✱	90	68 - 111
2-Methylnaphthalene	15	J	1560	1450		ug/Kg	✱	92	69 - 112

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	80		37 - 147
Terphenyl-d14 (Surr)	88		42 - 157
2-Fluorobiphenyl (Surr)	91		43 - 145

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-220837-1 MSD

Matrix: Solid
Analysis Batch: 672142

Client Sample ID: GP-7 (2-4)

Prep Type: Total/NA
Prep Batch: 671612

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acenaphthene	13	J	1580	1470		ug/Kg	*	92	65 - 124	2	30
Acenaphthylene	5.3	J	1580	1380		ug/Kg	*	87	68 - 120	4	30
Anthracene	35	J	1580	1600		ug/Kg	*	99	70 - 114	0	30
Benzo[a]anthracene	91		1580	1560		ug/Kg	*	93	67 - 122	3	30
Benzo[a]pyrene	86		1580	1580		ug/Kg	*	95	65 - 133	5	30
Benzo[b]fluoranthene	81		1580	1480		ug/Kg	*	89	69 - 129	7	30
Benzo[g,h,i]perylene	54		1580	1320		ug/Kg	*	80	72 - 131	8	30
Benzo[k]fluoranthene	44		1580	1580		ug/Kg	*	97	68 - 127	6	30
Chrysene	86		1580	1600		ug/Kg	*	96	63 - 120	6	30
Dibenz(a,h)anthracene	13	J	1580	1410		ug/Kg	*	89	64 - 131	4	30
Fluoranthene	190		1580	1900		ug/Kg	*	109	62 - 120	3	30
Fluorene	12	J	1580	1410		ug/Kg	*	89	62 - 120	3	30
Indeno[1,2,3-cd]pyrene	49		1580	1380		ug/Kg	*	84	68 - 130	4	30
Naphthalene	17	J	1580	1370		ug/Kg	*	86	63 - 110	2	30
Phenanthrene	160		1580	1770		ug/Kg	*	102	62 - 120	5	30
Pyrene	250		1580	1890		ug/Kg	*	104	61 - 128	1	30
1-Methylnaphthalene	14	J	1580	1180		ug/Kg	*	74	68 - 111	19	30
2-Methylnaphthalene	15	J	1580	1290		ug/Kg	*	81	69 - 112	12	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Nitrobenzene-d5 (Surr)	60		37 - 147
Terphenyl-d14 (Surr)	91		42 - 157
2-Fluorobiphenyl (Surr)	77		43 - 145

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-671491/1-A

Matrix: Solid
Analysis Batch: 671688

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 671491

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		08/24/22 11:30	08/25/22 11:43		1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		08/24/22 11:30	08/25/22 11:43		1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		08/24/22 11:30	08/25/22 11:43		1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		08/24/22 11:30	08/25/22 11:43		1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		08/24/22 11:30	08/25/22 11:43		1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/24/22 11:30	08/25/22 11:43		1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/24/22 11:30	08/25/22 11:43		1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		08/24/22 11:30	08/25/22 11:43		1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		08/24/22 11:30	08/25/22 11:43		1
Pyridine	<0.020		0.020	0.020	mg/L		08/24/22 11:30	08/25/22 11:43		1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		08/24/22 11:30	08/25/22 11:43		1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		08/24/22 11:30	08/25/22 11:43		1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil	Fac
2-Fluorobiphenyl (Surr)	78		34 - 110	08/24/22 11:30	08/25/22 11:43		1
2-Fluorophenol (Surr)	59		27 - 110	08/24/22 11:30	08/25/22 11:43		1
Nitrobenzene-d5 (Surr)	41		36 - 120	08/24/22 11:30	08/25/22 11:43		1

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-671491/1-A
Matrix: Solid
Analysis Batch: 671688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671491

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Phenol-d5 (Surr)	17	S1-	20 - 100	08/24/22 11:30	08/25/22 11:43	1
Terphenyl-d14 (Surr)	105		40 - 145	08/24/22 11:30	08/25/22 11:43	1
2,4,6-Tribromophenol (Surr)	66		40 - 145	08/24/22 11:30	08/25/22 11:43	1

Lab Sample ID: LCS 500-671491/2-A
Matrix: Solid
Analysis Batch: 671688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.0400	0.0412		mg/L		103	63 - 129
Hexachlorobenzene	0.0400	0.0395		mg/L		99	61 - 126
Hexachlorobutadiene	0.0400	0.0227		mg/L		57	20 - 100
Hexachloroethane	0.0400	0.0256		mg/L		64	20 - 100
2-Methylphenol	0.0400	0.0353		mg/L		88	53 - 115
3 & 4 Methylphenol	0.0400	0.0325		mg/L		81	50 - 116
Nitrobenzene	0.0400	0.0369		mg/L		92	54 - 121
Pentachlorophenol	0.0800	0.0724		mg/L		91	42 - 148
Pyridine	0.0800	0.0279		mg/L		35	15 - 110
2,4,5-Trichlorophenol	0.0400	0.0408		mg/L		102	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 121

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	103		34 - 110
2-Fluorophenol (Surr)	85		27 - 110
Nitrobenzene-d5 (Surr)	86		36 - 120
Phenol-d5 (Surr)	42		20 - 100
Terphenyl-d14 (Surr)	115		40 - 145
2,4,6-Tribromophenol (Surr)	99		40 - 145

Lab Sample ID: LB2 500-671341/1-B
Matrix: Solid
Analysis Batch: 671688

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 671491

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/24/22 11:30	08/25/22 14:54	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/24/22 11:30	08/25/22 14:54	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/24/22 11:30	08/25/22 14:54	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/24/22 11:30	08/25/22 14:54	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/24/22 11:30	08/25/22 14:54	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/24/22 11:30	08/25/22 14:54	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/24/22 11:30	08/25/22 14:54	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/24/22 11:30	08/25/22 14:54	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/24/22 11:30	08/25/22 14:54	1
Pyridine	<0.20		0.20	0.20	mg/L		08/24/22 11:30	08/25/22 14:54	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/24/22 11:30	08/25/22 14:54	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/24/22 11:30	08/25/22 14:54	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB2 500-671341/1-B
Matrix: Solid
Analysis Batch: 671688

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 671491

Surrogate	LB2 LB2		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	90		34 - 110	08/24/22 11:30	08/25/22 14:54	1
2-Fluorophenol (Surr)	76		27 - 110	08/24/22 11:30	08/25/22 14:54	1
Nitrobenzene-d5 (Surr)	61		36 - 120	08/24/22 11:30	08/25/22 14:54	1
Phenol-d5 (Surr)	27		20 - 100	08/24/22 11:30	08/25/22 14:54	1
Terphenyl-d14 (Surr)	128		40 - 145	08/24/22 11:30	08/25/22 14:54	1
2,4,6-Tribromophenol (Surr)	79		40 - 145	08/24/22 11:30	08/25/22 14:54	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-671850/1-A
Matrix: Solid
Analysis Batch: 672212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671850

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		08/26/22 09:04	08/29/22 16:50	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		08/26/22 09:04	08/29/22 16:50	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	133	S1+	49 - 129	08/26/22 09:04	08/29/22 16:50	1
DCB Decachlorobiphenyl	121		37 - 121	08/26/22 09:04	08/29/22 16:50	1

Lab Sample ID: LCS 500-671850/2-A
Matrix: Solid
Analysis Batch: 672212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671850

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.167	0.172		mg/Kg		103	57 - 120
PCB-1260	0.167	0.176		mg/Kg		106	61 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	137	S1+	49 - 129
DCB Decachlorobiphenyl	126	S1+	37 - 121

Lab Sample ID: 500-220837-6 MS
Matrix: Solid
Analysis Batch: 672212

Client Sample ID: GP-5 (11-12)
Prep Type: Total/NA
Prep Batch: 671850

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	<0.0071		0.174	0.137		mg/Kg	☼	78	57 - 120
PCB-1260	<0.0068		0.174	0.119		mg/Kg	☼	68	61 - 125

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	100		49 - 129

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-220837-6 MS
Matrix: Solid
Analysis Batch: 672212

Client Sample ID: GP-5 (11-12)
Prep Type: Total/NA
Prep Batch: 671850

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	69		37 - 121

Lab Sample ID: 500-220837-6 MSD
Matrix: Solid
Analysis Batch: 672212

Client Sample ID: GP-5 (11-12)
Prep Type: Total/NA
Prep Batch: 671850

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
PCB-1016	<0.0071		0.182	0.149		mg/Kg	⊛	82	57 - 120	9	30
PCB-1260	<0.0068		0.182	0.142		mg/Kg	⊛	78	61 - 125	17	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	100		49 - 129
DCB Decachlorobiphenyl	83		37 - 121

Lab Sample ID: MB 500-671936/1-A
Matrix: Solid
Analysis Batch: 672139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671936

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		08/26/22 14:08	08/29/22 12:02	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		08/26/22 14:08	08/29/22 12:02	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	151	S1+	49 - 129	08/26/22 14:08	08/29/22 12:02	1
DCB Decachlorobiphenyl	189	S1+	37 - 121	08/26/22 14:08	08/29/22 12:02	1

Lab Sample ID: LCS 500-671936/2-A
Matrix: Solid
Analysis Batch: 672139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671936

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	0.167	0.141		mg/Kg		85	57 - 120
PCB-1260	0.167	0.169		mg/Kg		102	61 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	108		49 - 129
DCB Decachlorobiphenyl	132	S1+	37 - 121

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-671343/1-A
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Barium	<0.11		1.0	0.11	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Lead	<0.23		0.50	0.23	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/23/22 14:41	08/24/22 11:35	1
Silver	<0.13		0.50	0.13	mg/Kg		08/23/22 14:41	08/24/22 11:35	1

Lab Sample ID: LCS 500-671343/2-A
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.07		mg/Kg		91	80 - 120
Barium	200	194		mg/Kg		97	80 - 120
Cadmium	5.00	4.50		mg/Kg		90	80 - 120
Chromium	20.0	18.5		mg/Kg		92	80 - 120
Lead	10.0	8.72		mg/Kg		87	80 - 120
Selenium	10.0	8.30		mg/Kg		83	80 - 120
Silver	5.00	4.06		mg/Kg		81	80 - 120

Lab Sample ID: 500-220837-11 MS
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-3 (24-25)
Prep Type: Total/NA
Prep Batch: 671343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.0		10.5	12.9		mg/Kg	☼	85	75 - 125
Barium	29		210	223		mg/Kg	☼	92	75 - 125
Cadmium	3.8	F1	5.25	4.79	F1	mg/Kg	☼	18	75 - 125
Chromium	10		21.0	29.4		mg/Kg	☼	91	75 - 125
Lead	6.5		10.5	15.5		mg/Kg	☼	86	75 - 125
Selenium	<0.61	F1	10.5	8.15		mg/Kg	☼	78	75 - 125
Silver	0.18	J	5.25	4.53		mg/Kg	☼	83	75 - 125

Lab Sample ID: 500-220837-11 MSD
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-3 (24-25)
Prep Type: Total/NA
Prep Batch: 671343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	4.0		10.9	12.9		mg/Kg	☼	82	75 - 125	0	20
Barium	29		219	233		mg/Kg	☼	93	75 - 125	4	20
Cadmium	3.8	F1	5.47	4.90	F1	mg/Kg	☼	20	75 - 125	2	20
Chromium	10		21.9	29.7		mg/Kg	☼	89	75 - 125	1	20
Lead	6.5		10.9	15.4		mg/Kg	☼	81	75 - 125	1	20
Selenium	<0.61	F1	10.9	8.14	F1	mg/Kg	☼	74	75 - 125	0	20
Silver	0.18	J	5.47	4.70		mg/Kg	☼	83	75 - 125	4	20

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-220837-11 DU
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-3 (24-25)
Prep Type: Total/NA
Prep Batch: 671343

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	4.0		2.94	F3	mg/Kg	☼	30	20
Barium	29		30.4		mg/Kg	☼	3	20
Cadmium	3.8	F1	0.0979	J F3	mg/Kg	☼	190	20
Chromium	10		10.7		mg/Kg	☼	4	20
Lead	6.5		6.00		mg/Kg	☼	8	20
Selenium	<0.61	F1	<0.60		mg/Kg	☼	NC	20
Silver	0.18	J	<0.13		mg/Kg	☼	NC	20

Lab Sample ID: MB 500-671349/1-A
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671349

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Arsenic	<0.34		1.0	0.34	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Barium	<0.11		1.0	0.11	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Chromium	<0.50		1.0	0.50	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Lead	<0.23		0.50	0.23	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Selenium	<0.59		1.0	0.59	mg/Kg		08/23/22 14:50	08/24/22 14:04		1
Silver	<0.13		0.50	0.13	mg/Kg		08/23/22 14:50	08/24/22 14:04		1

Lab Sample ID: LCS 500-671349/2-A
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.52		mg/Kg		90	80 - 120
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Lead	10.0	8.52		mg/Kg		85	80 - 120
Selenium	10.0	8.22		mg/Kg		82	80 - 120
Silver	5.00	4.00		mg/Kg		80	80 - 120

Lab Sample ID: 500-220837-21 MS
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-6 (11-12)
Prep Type: Total/NA
Prep Batch: 671349

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	2.3		11.0	12.8		mg/Kg	☼	95	75 - 125
Barium	24		220	230		mg/Kg	☼	94	75 - 125
Cadmium	0.15	J	5.50	5.19		mg/Kg	☼	92	75 - 125
Chromium	9.6		22.0	30.1		mg/Kg	☼	93	75 - 125
Lead	6.8		11.0	17.2		mg/Kg	☼	94	75 - 125
Selenium	<0.61		11.0	8.34		mg/Kg	☼	76	75 - 125
Silver	<0.13		5.50	4.86		mg/Kg	☼	88	75 - 125

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-220837-21 MSD
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-6 (11-12)
Prep Type: Total/NA
Prep Batch: 671349

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Arsenic	2.3		11.1	12.5		mg/Kg	☼	92	75 - 125	3	20
Barium	24		222	222		mg/Kg	☼	89	75 - 125	4	20
Cadmium	0.15	J	5.54	5.16		mg/Kg	☼	91	75 - 125	1	20
Chromium	9.6		22.2	28.8		mg/Kg	☼	87	75 - 125	4	20
Lead	6.8		11.1	17.0		mg/Kg	☼	92	75 - 125	1	20
Selenium	<0.61		11.1	8.54		mg/Kg	☼	77	75 - 125	2	20
Silver	<0.13		5.54	4.82		mg/Kg	☼	87	75 - 125	1	20

Lab Sample ID: 500-220837-21 DU
Matrix: Solid
Analysis Batch: 671661

Client Sample ID: GP-6 (11-12)
Prep Type: Total/NA
Prep Batch: 671349

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Arsenic	2.3		4.28	F3	mg/Kg	☼	61	20
Barium	24		25.6		mg/Kg	☼	5	20
Cadmium	0.15	J	0.128	J	mg/Kg	☼	13	20
Chromium	9.6		11.6		mg/Kg	☼	19	20
Lead	6.8		8.28		mg/Kg	☼	20	20
Selenium	<0.61		<0.60		mg/Kg	☼	NC	20
Silver	<0.13		0.179	J	mg/Kg	☼	NC	20

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-671650/15-A
Matrix: Solid
Analysis Batch: 671851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671650

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	0.500	0.479	J	mg/L		96	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Chromium	0.200	0.219		mg/L		110	80 - 120
Copper	0.250	0.235		mg/L		94	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.0928		mg/L		93	80 - 120
Silver	0.0500	0.0488		mg/L		98	80 - 120

Lab Sample ID: LCS 500-671650/15-A
Matrix: Solid
Analysis Batch: 671937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671650

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Nickel	0.500	0.466		mg/L		93	80 - 120
Zinc	0.500	0.451		mg/L		90	80 - 120

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-671341/1-E
Matrix: Solid
Analysis Batch: 671851

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 671650

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		08/25/22 08:19	08/26/22 05:44	1
Barium	<0.050		0.50	0.050	mg/L		08/25/22 08:19	08/26/22 05:44	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/25/22 08:19	08/26/22 05:44	1
Chromium	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 05:44	1
Copper	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 05:44	1
Lead	<0.0075		0.050	0.0075	mg/L		08/25/22 08:19	08/26/22 05:44	1
Selenium	<0.020		0.050	0.020	mg/L		08/25/22 08:19	08/26/22 05:44	1
Silver	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 05:44	1

Lab Sample ID: LB2 500-671341/1-E
Matrix: Solid
Analysis Batch: 671937

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 671650

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.010		0.025	0.010	mg/L		08/25/22 08:19	08/26/22 11:33	1
Zinc	<0.020		0.10	0.020	mg/L		08/25/22 08:19	08/26/22 11:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-671551/12-A
Matrix: Solid
Analysis Batch: 671735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671551

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		08/24/22 15:20	08/25/22 09:05	1

Lab Sample ID: LCS 500-671551/28-A
Matrix: Solid
Analysis Batch: 671735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671551

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB2 500-671341/2-B
Matrix: Solid
Analysis Batch: 671735

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 671551

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		08/24/22 15:20	08/25/22 10:43	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-671300/12-A
Matrix: Solid
Analysis Batch: 671489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671300

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/23/22 14:50	08/24/22 09:13	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-671300/13-A
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 671300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Lab Sample ID: 500-220837-9 MS
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: GP-3 (12-13)
 Prep Type: Total/NA
 Prep Batch: 671300

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.014	J	0.0888	0.120		mg/Kg	✱	120	75 - 125

Lab Sample ID: 500-220837-9 MSD
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: GP-3 (12-13)
 Prep Type: Total/NA
 Prep Batch: 671300

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	0.014	J	0.0891	0.117		mg/Kg	✱	116	75 - 125	3	20

Lab Sample ID: 500-220837-9 DU
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: GP-3 (12-13)
 Prep Type: Total/NA
 Prep Batch: 671300

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.014	J	0.0190	F5	mg/Kg	✱	33	20

Lab Sample ID: MB 500-671305/12-A
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 671305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00897	J	0.017	0.0056	mg/Kg		08/23/22 14:50	08/24/22 10:13	1

Lab Sample ID: LCS 500-671305/13-A
 Matrix: Solid
 Analysis Batch: 671489

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 671305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-671318/1-A
 Matrix: Solid
 Analysis Batch: 671922

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 671318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.010	0.0050	mg/Kg		08/23/22 13:54	08/25/22 17:35	1

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 500-671318/2-A
Matrix: Solid
Analysis Batch: 671922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671318

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.375		mg/Kg		94	90 - 110

Lab Sample ID: LCS 500-671318/3-A
Matrix: Solid
Analysis Batch: 671922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0998		mg/Kg		100	85 - 115

Lab Sample ID: LLCS 500-671318/4-A
Matrix: Solid
Analysis Batch: 671922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671318

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0443		mg/Kg		89	75 - 125

Lab Sample ID: 500-220837-26 MS
Matrix: Solid
Analysis Batch: 671922

Client Sample ID: Protocol B
Prep Type: Total/NA
Prep Batch: 671318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.13	F1	1.21	0.364	F1	mg/Kg	⊛	30	75 - 125

Lab Sample ID: 500-220837-26 MSD
Matrix: Solid
Analysis Batch: 671922

Client Sample ID: Protocol B
Prep Type: Total/NA
Prep Batch: 671318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Cyanide, Total	<0.13	F1	1.23	0.315	F1	mg/Kg	⊛	26	75 - 125	14	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-672214/1-A
Matrix: Solid
Analysis Batch: 672340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		08/29/22 16:56	08/30/22 13:32	1

Lab Sample ID: LCS 500-672214/2-A
Matrix: Solid
Analysis Batch: 672340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	190	175		mg/Kg		92	80 - 120

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 500-671902/1-A
 Matrix: Solid
 Analysis Batch: 671966

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 671902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.41		0.50	0.41	mg/Kg		08/26/22 12:15	08/26/22 14:04	1

Lab Sample ID: LCS 500-671902/2-A
 Matrix: Solid
 Analysis Batch: 671966

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 671902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	10.0	9.18		mg/Kg		92	90 - 110

Method: 9251 - Chlorine, Total

Lab Sample ID: MB 680-736289/1-A
 Matrix: Solid
 Analysis Batch: 736327

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 736289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Chlorine	<49		49	49	mg/Kg		08/17/22 10:46	08/17/22 12:45	1

Lab Sample ID: LCS 680-736289/2-A
 Matrix: Solid
 Analysis Batch: 736327

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 736289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Chlorine	9900	8670		mg/Kg		88	70 - 130

Method: SM 2710F - Specific Gravity, Density

Lab Sample ID: 500-220837-26 DU
 Matrix: Solid
 Analysis Batch: 672393

Client Sample ID: Protocol B
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	2.2986		2.2214		NONE		3	

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (2-4)
Date Collected: 08/11/22 09:15
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-7 (2-4)
Date Collected: 08/11/22 09:15
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-1
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 09:15
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 17:29
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 16:46
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 17:20
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 11:41
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:16

Client Sample ID: GP-7 (10-11)
Date Collected: 08/11/22 09:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-7 (10-11)
Date Collected: 08/11/22 09:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-2
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 09:35
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 17:52
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 17:51
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 17:35
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 11:44
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:23

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-7 (16-17)
Date Collected: 08/11/22 09:45
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-7 (16-17)
Date Collected: 08/11/22 09:45
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-3
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 09:45
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 18:15
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 18:12
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 17:50
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 11:54
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:25

Client Sample ID: GP-7 (20-21)
Date Collected: 08/11/22 14:50
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-7 (20-21)
Date Collected: 08/11/22 14:50
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-4
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 14:50
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 18:38
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 18:33
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 18:04
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 11:57
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:26

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (2-4)

Date Collected: 08/11/22 10:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-5 (2-4)

Date Collected: 08/11/22 10:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-5

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 10:30
Total/NA	Analysis	8260B		50	671234	PMF	EET CHI	08/23/22 16:52
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		20	672142	SS	EET CHI	08/29/22 18:55
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 18:19
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:00
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:28

Client Sample ID: GP-5 (11-12)

Date Collected: 08/11/22 10:35

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-5 (11-12)

Date Collected: 08/11/22 10:35

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-6

Matrix: Solid

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 10:35
Total/NA	Analysis	8260B		50	671234	PMF	EET CHI	08/23/22 17:15
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 19:16
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 18:34
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:34
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:30

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-5 (16-17)
Date Collected: 08/11/22 10:40
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-5 (16-17)
Date Collected: 08/11/22 10:40
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-7
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 10:40
Total/NA	Analysis	8260B		50	671234	PMF	EET CHI	08/23/22 17:38
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 19:38
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 19:19
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:38
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:32

Client Sample ID: GP-3 (2-4)
Date Collected: 08/11/22 11:15
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-3 (2-4)
Date Collected: 08/11/22 11:15
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-8
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 11:15
Total/NA	Analysis	8260B		50	671234	PMF	EET CHI	08/23/22 18:01
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		10	672142	SS	EET CHI	08/29/22 19:59
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 19:34
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:41
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:34

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (12-13)
Date Collected: 08/11/22 11:25
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-3 (12-13)
Date Collected: 08/11/22 11:25
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-9
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 11:25
Total/NA	Analysis	8260B		100	671234	PMF	EET CHI	08/23/22 18:47
Total/NA	Prep	3541	DL		671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D	DL	10	672283	JSB	EET CHI	08/30/22 10:21
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 20:21
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 19:49
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:44
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:36

Client Sample ID: GP-3 (16-17)
Date Collected: 08/11/22 11:20
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-3 (16-17)
Date Collected: 08/11/22 11:20
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-10
Matrix: Solid
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 11:20
Total/NA	Analysis	8260B		50	671234	PMF	EET CHI	08/23/22 18:24
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 20:42
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 20:03
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:47
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:47

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-3 (24-25)
Date Collected: 08/11/22 11:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-3 (24-25)
Date Collected: 08/11/22 11:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-11
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 11:30
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 19:01
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 21:03
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 20:18
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 12:51
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:50

Client Sample ID: GP-1 (2-4)
Date Collected: 08/11/22 12:00
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-1 (2-4)
Date Collected: 08/11/22 12:00
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-12
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 12:00
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 19:24
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		10	672142	SS	EET CHI	08/29/22 21:25
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 20:33
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:28
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:51

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-1 (8-9)
Date Collected: 08/11/22 12:05
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671250	LWN	EET CHI	08/23/22 09:49

Client Sample ID: GP-1 (8-9)
Date Collected: 08/11/22 12:05
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-13
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 12:05
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 19:47
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 21:46
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 20:48
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:31
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:53

Client Sample ID: GP-1 (9-10)
Date Collected: 08/11/22 12:10
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-1 (9-10)
Date Collected: 08/11/22 12:10
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-14
Matrix: Solid
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 12:10
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 20:10
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 22:07
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 21:03
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:34
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:56

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-2 (2-4)

Date Collected: 08/11/22 12:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-2 (2-4)

Date Collected: 08/11/22 12:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-15

Matrix: Solid

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 12:30
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 20:33
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		10	672142	SS	EET CHI	08/29/22 22:29
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 21:18
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:38
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:57

Client Sample ID: GP-2 (7-9)

Date Collected: 08/11/22 12:35

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-2 (7-9)

Date Collected: 08/11/22 12:35

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-16

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 12:35
Total/NA	Analysis	8260B		50	671641	JDD	EET CHI	08/25/22 11:10
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 22:50
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 21:32
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:41
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		2	671661	JJB	EET CHI	08/24/22 15:42
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 09:59

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (2-4)

Date Collected: 08/11/22 13:20

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-4 (2-4)

Date Collected: 08/11/22 13:20

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-17

Matrix: Solid

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 13:20
Total/NA	Analysis	8260B		50	671641	JDD	EET CHI	08/25/22 11:33
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		20	672142	SS	EET CHI	08/29/22 23:11
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672212	SS	EET CHI	08/29/22 21:47
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:45
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		2	671661	JJB	EET CHI	08/24/22 15:45
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:01

Client Sample ID: GP-4 (9-10)

Date Collected: 08/11/22 13:25

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-4 (9-10)

Date Collected: 08/11/22 13:25

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-18

Matrix: Solid

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 13:25
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 21:42
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 23:33
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672221	SB	EET CHI	08/30/22 07:55
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:48
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:03

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-4 (16-17)
Date Collected: 08/11/22 13:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-4 (16-17)
Date Collected: 08/11/22 13:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-19
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 13:30
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 22:05
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		1	672142	SS	EET CHI	08/29/22 23:54
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672221	SB	EET CHI	08/30/22 08:10
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 13:51
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:09

Client Sample ID: GP-6 (0-5)
Date Collected: 08/11/22 13:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-6 (0-5)
Date Collected: 08/11/22 13:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-20
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670490	WRE	EET CHI	08/11/22 13:35
Total/NA	Analysis	8260B		50	671641	JDD	EET CHI	08/25/22 11:57
Total/NA	Prep	3541	DL		671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D	DL	200	672277	JSB	EET CHI	08/30/22 12:19
Total/NA	Prep	3541			671612	KN	EET CHI	08/25/22 07:09 - 08/25/22 15:00 ¹
Total/NA	Analysis	8270D		20	672142	SS	EET CHI	08/30/22 00:15
Total/NA	Prep	3541			671850	FRG	EET CHI	08/26/22 09:04 - 08/26/22 17:34 ¹
Total/NA	Analysis	8082A		1	672221	SB	EET CHI	08/30/22 08:25
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:01
Total/NA	Prep	3050B			671343	LMB	EET CHI	08/23/22 14:41 - 08/23/22 15:11 ¹
Total/NA	Analysis	6010C		2	671661	JJB	EET CHI	08/24/22 15:48
Total/NA	Prep	7471B			671300	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:11

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-6 (11-12)
Date Collected: 08/11/22 14:00
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-6 (11-12)
Date Collected: 08/11/22 14:00
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-21
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 14:00
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 22:50
Total/NA	Prep	3541			671397	KN	EET CHI	08/24/22 07:02 - 08/24/22 15:00 ¹
Total/NA	Analysis	8270D		1	671948	SS	EET CHI	08/26/22 21:48
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 15:00
Total/NA	Prep	3050B			671349	LMB	EET CHI	08/23/22 14:50 - 08/23/22 15:20 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:08
Total/NA	Prep	7471B			671305	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:16

Client Sample ID: GP-6 (22-23)
Date Collected: 08/11/22 14:05
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-6 (22-23)
Date Collected: 08/11/22 14:05
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-22
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 14:05
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 23:14
Total/NA	Prep	3541			671397	KN	EET CHI	08/24/22 07:02 - 08/24/22 15:00 ¹
Total/NA	Analysis	8270D		1	671948	SS	EET CHI	08/26/22 22:09
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 15:15
Total/NA	Prep	3050B			671349	LMB	EET CHI	08/23/22 14:50 - 08/23/22 15:20 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:24
Total/NA	Prep	7471B			671305	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:19

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (2-4)
Date Collected: 08/11/22 14:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-8 (2-4)
Date Collected: 08/11/22 14:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-23
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 14:30
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/24/22 23:37
Total/NA	Prep	3541			671397	KN	EET CHI	08/24/22 07:02 - 08/24/22 15:00 ¹
Total/NA	Analysis	8270D		1	671948	SS	EET CHI	08/26/22 22:31
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 15:29
Total/NA	Prep	3050B			671349	LMB	EET CHI	08/23/22 14:50 - 08/23/22 15:20 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:27
Total/NA	Prep	7471B			671305	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:21

Client Sample ID: GP-8 (6-7)
Date Collected: 08/11/22 14:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-8 (6-7)
Date Collected: 08/11/22 14:35
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-24
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 14:35
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/25/22 00:00
Total/NA	Prep	3541			671397	KN	EET CHI	08/24/22 07:02 - 08/24/22 15:00 ¹
Total/NA	Analysis	8270D		1	671948	SS	EET CHI	08/26/22 22:52
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 15:44
Total/NA	Prep	3050B			671349	LMB	EET CHI	08/23/22 14:50 - 08/23/22 15:20 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:30
Total/NA	Prep	7471B			671305	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:22

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: GP-8 (22-23)
Date Collected: 08/11/22 14:40
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Client Sample ID: GP-8 (22-23)
Date Collected: 08/11/22 14:40
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-25
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 14:40
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/25/22 00:23
Total/NA	Prep	3541			671397	KN	EET CHI	08/24/22 07:02 - 08/24/22 15:00 ¹
Total/NA	Analysis	8270D		1	671948	SS	EET CHI	08/26/22 23:13
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 15:59
Total/NA	Prep	3050B			671349	LMB	EET CHI	08/23/22 14:50 - 08/23/22 15:20 ¹
Total/NA	Analysis	6010C		1	671661	JJB	EET CHI	08/24/22 14:43
Total/NA	Prep	7471B			671305	MJG	EET CHI	08/23/22 14:50
Total/NA	Analysis	7471B		1	671489	MJG	EET CHI	08/24/22 10:24

Client Sample ID: Protocol B
Date Collected: 08/11/22 15:30
Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			671603	EA	EET CHI	08/24/22 15:16
TCLP	Analysis	8260B		20	671627	JDD	EET CHI	08/25/22 12:20
TCLP	Leach	1311			671341	EA	EET CHI	08/23/22 11:44 - 08/24/22 05:44 ¹
TCLP	Prep	3510C			671491	TS	EET CHI	08/24/22 11:30
TCLP	Analysis	8270E		5	671916	SS	EET CHI	08/26/22 17:54
TCLP	Leach	1311			671341	EA	EET CHI	08/23/22 11:44 - 08/24/22 05:44 ¹
TCLP	Prep	3010A			671650	BDE	EET CHI	08/25/22 08:19 - 08/25/22 08:49 ¹
TCLP	Analysis	6010D		1	671937	JJB	EET CHI	08/26/22 11:50
TCLP	Leach	1311			671341	EA	EET CHI	08/23/22 11:44 - 08/24/22 05:44 ¹
TCLP	Prep	3010A			671650	BDE	EET CHI	08/25/22 08:19 - 08/25/22 08:49 ¹
TCLP	Analysis	6010D		1	671851	JJB	EET CHI	08/26/22 06:54
TCLP	Leach	1311			671341	EA	EET CHI	08/23/22 11:44 - 08/24/22 05:44 ¹
TCLP	Prep	7470A			671551	MJG	EET CHI	08/24/22 15:20 - 08/24/22 17:20 ¹
TCLP	Analysis	7470A		1	671735	MJG	EET CHI	08/25/22 10:58
Total/NA	Prep	9030B			672214	BC	EET CHI	08/29/22 17:36 - 08/29/22 17:37 ¹
Total/NA	Analysis	9034		1	672340	BC	EET CHI	08/30/22 13:39
Total/NA	Analysis	9045D		1	670265	LWN	EET CHI	08/16/22 11:18
Total/NA	Analysis	9095B		1	671967	BC	EET CHI	08/26/22 16:06 - 08/26/22 16:11 ¹
Total/NA	Prep	5050			736289	SM	EET SAV	08/17/22 10:46
Total/NA	Analysis	9251		1	736327	SM	EET SAV	08/17/22 12:45
Total/NA	Analysis	D92		1	672204	PFK	EET CHI	08/29/22 13:41 - 08/29/22 13:55 ¹
Total/NA	Analysis	Moisture		1	671287	LWN	EET CHI	08/23/22 10:50

Eurofins Chicago

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Client Sample ID: Protocol B

Date Collected: 08/11/22 15:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2710F		1	672393	PFK	EET CHI	08/30/22 14:45 - 08/30/22 14:50 ¹

Client Sample ID: Protocol B

Date Collected: 08/11/22 15:30

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-26

Matrix: Solid

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			671936	EK	EET CHI	08/26/22 14:08 - 08/26/22 19:00 ¹
Total/NA	Analysis	8082A		1	672139	SS	EET CHI	08/29/22 17:24
Total/NA	Prep	9010C			671318	LP	EET CHI	08/23/22 13:54 - 08/23/22 14:24 ¹
Total/NA	Analysis	9012B		1	671922	JMP	EET CHI	08/25/22 17:41
Total/NA	Prep	Distill/Phenol			671902	PFK	EET CHI	08/26/22 12:15 - 08/26/22 13:15 ¹
Total/NA	Analysis	9066		1	671966	PFK	EET CHI	08/26/22 14:10

Client Sample ID: Trip Blank

Date Collected: 08/11/22 00:00

Date Received: 08/12/22 17:45

Lab Sample ID: 500-220837-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			670503	WRE	EET CHI	08/11/22 00:00
Total/NA	Analysis	8260B		50	671503	W1T	EET CHI	08/25/22 00:46

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ramboll US Corporation
 Project/Site: AHPRC 2 - 1690005255-002

Job ID: 500-220837-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
Alaska (UST)	State	17-016	09-22-22
ANAB	Dept. of Defense ELAP	L2463	09-18-22
ANAB	ISO/IEC 17025	L2463.01	09-22-22
Arkansas DEQ	State	19-015-0	02-01-23
California	State	2939	06-30-22 *
Connecticut	State	PH-0161	03-31-23
Florida	NELAP	E87052	07-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-23
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-22
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	07-01-23
Kentucky (UST)	State	NA	06-30-23
Louisiana (All)	NELAP	<cert No.>	06-30-23
Louisiana (DW)	State	LA009	12-31-22
Maine	State	GA00006	09-25-22
Maryland	State	250	12-31-22
Massachusetts	State	M-GA006	07-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
New York	NELAP	10842	04-01-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-22
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-23
South Carolina	State	98001	06-30-22 *
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-22
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wisconsin	State	999819810	08-31-23


* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago

24 W Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

Eurofins

Client Information		Sample ID: Danielle Cromley		Lab Name: Fred ck Sandie		Customer Tracking No(s)		COC No: 500 104370-44667 1		
Client Contact: Duncan Glasford		Phone		E-Mail: Sandra.Fredr.ck@et.eurofinsus.com		State of Origin: WI		Page: Page 1 of 3		
Company: Ramboll US Corporation		Due Date Requested		Analysis Requested		Job #: 500-220837		Preservation Codes		
Address: 234 W Florida Street 5th Floor		TAT Requested (days): STD		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		 500-220837 COC		A HCL M Hexane B NaOH N None C Zn Acetate U AsNaC2 D Nitro Acid P Na2C4O5 E NaHSO4 Q Na2CO3 F MeOH R Na2S2O3 G Am Chlor S H2O4 H Ascorbic Acid T SP Decacahyrate I Acetone U Acetone J Di Water V MCAA K EDTA X pr 4- L ED Y Trizma Z Other spe. fy		
City: Milwaukee		PO #		Purchase Order Requested		Total Number of Containers		Other:		
State/Zip: WI 53204		WO #		Project Name: Milwaukee Construction		Project #: 50010686		Special Instructions/Note		
Phone: 414-837-3687 (Tel)		SSUW#		Site		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)				
Email: DGLASFORD@ramboll.com		8260B VOC 6010C, 7471B, 8032A, 8270D 2710F, 8082A, 9034, Calc 9045D, 9065, 9095B, D92 9251, Total Cl, Chlorine Total 8270E SVOC 8010D, 7470A 9012B Cyanide								
Project Name: Milwaukee Construction										
Site										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=waste, S=soil, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers		Special Instructions/Note
Preservation Code						X	N	N	N	N
1	GP-7 (2-4)	8-11-22	915	G	Solid		X	X		
2	GP-7 (10-11)		935		Solid					
3	GP-7 (16-17)		945		Solid					
4	GP-7 (20-21)		1450		Solid					
5	GP-5 (2-4)		1030		Solid					
6	GP-5 (11-12)		1035		Solid					
7	GP-5 (16-17)		1040		Solid					
8	GP 3 (2-4)		1115		Solid					
9	GP 3 (12-13)		1125		Solid					
10	GP 3 (16-17)		1120		Solid					
11	GP 3 (24-25)		1130		Solid					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poisonous <input type="checkbox"/> Unknown <input type="checkbox"/> Radioactive						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements				
Empty Kit Requisitioned by		Date		Time		Method of Shipment				
Requisitioned by: <i>[Signature]</i>		Date/Time: 8/12/22 800		Company: Ramboll		Received by: <i>[Signature]</i>		Date/Time: 8-12-22 800		Company: Eurofins
Requisitioned by: <i>[Signature]</i>		Date/Time: 8-12-22 1400		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 8/12/22 1430		Company: EETA
Requisitioned by: <i>[Signature]</i>		Date/Time: 8/12/22 1745		Company: EETA		Received by: Stephanie Hernandez		Date/Time: 8/12/22 1745		Company: EETA
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Container Temperatures and Other Remarks		4.6+2.6, 4.9+3.6				

Eurofins Chicago

2417 Bond Street
 University Park IL 6J484
 Phone 708-534-5200 Fax 708 534-5211

Chain of Custody Record

eurofins

Client Information		Sampler <i>Danielle Groomley</i>	Lab PM Fredrick Sandie	Carrier Tracking No.:	COC No. 500- 04370-44667 2																												
Client Contact: Duncan Glasford		Phone:	E-Mail Sandra.Fredrick@et.eu.ofinsus.com	State of Origin: WI	Page: Page 2 of 3																												
Company Ramboll US Corporation		PA# D	Analysis Requested																														
Address 234 W Florida Street Fifth Floor Milwaukee State Zip WI 53204		Due Date Requested STD	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Field Filtered MS/MSD (Yes or No)</td> <td>826B VOC</td> <td>6010C, 7471B, 8082A, 8270D</td> <td>2710F, 6082A, 9034, Calc, 9045D, 9066, 9096B, D82</td> <td>9251, Total Cl, Chlorine Total</td> <td>8270E SVOC</td> <td>6010D 7470A</td> <td>9012B Cyanide</td> </tr> </table>			Field Filtered Sample (Yes or No)	Field Filtered MS/MSD (Yes or No)	826B VOC	6010C, 7471B, 8082A, 8270D	2710F, 6082A, 9034, Calc, 9045D, 9066, 9096B, D82	9251, Total Cl, Chlorine Total	8270E SVOC	6010D 7470A	9012B Cyanide																			
Field Filtered Sample (Yes or No)	Field Filtered MS/MSD (Yes or No)	826B VOC				6010C, 7471B, 8082A, 8270D	2710F, 6082A, 9034, Calc, 9045D, 9066, 9096B, D82	9251, Total Cl, Chlorine Total	8270E SVOC	6010D 7470A	9012B Cyanide																						
TAT Requested (days)		Preservation Codes																															
Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		<table border="0"> <tr> <td>A HCl</td><td>M Hexane</td> </tr> <tr> <td>B NaOH</td><td>N None</td> </tr> <tr> <td>C Zn Acetate</td><td>O AsNaCO₃</td> </tr> <tr> <td>D NH₄ Acid</td><td>P Na₂O₄</td> </tr> <tr> <td>E NaHSO₄</td><td>Q Na₂SO₃</td> </tr> <tr> <td>F MeOH</td><td>R Na₂S₂O₃</td> </tr> <tr> <td>G Amchlor</td><td>S H₂S₄</td> </tr> <tr> <td>H ascorbic Acid</td><td>T TSP Doucal yurate</td> </tr> <tr> <td>I Ice</td><td>U Acetone</td> </tr> <tr> <td>J DI Water</td><td>V MCAA</td> </tr> <tr> <td>K EDTA</td><td>W pH 4</td> </tr> <tr> <td>L F-DA</td><td>Y Trizma</td> </tr> <tr> <td></td><td>Z Other (specify)</td> </tr> </table>				A HCl	M Hexane	B NaOH	N None	C Zn Acetate	O AsNaCO ₃	D NH ₄ Acid	P Na ₂ O ₄	E NaHSO ₄	Q Na ₂ SO ₃	F MeOH	R Na ₂ S ₂ O ₃	G Amchlor	S H ₂ S ₄	H ascorbic Acid	T TSP Doucal yurate	I Ice	U Acetone	J DI Water	V MCAA	K EDTA	W pH 4	L F-DA	Y Trizma		Z Other (specify)		
A HCl	M Hexane																																
B NaOH	N None																																
C Zn Acetate	O AsNaCO ₃																																
D NH ₄ Acid	P Na ₂ O ₄																																
E NaHSO ₄	Q Na ₂ SO ₃																																
F MeOH	R Na ₂ S ₂ O ₃																																
G Amchlor	S H ₂ S ₄																																
H ascorbic Acid	T TSP Doucal yurate																																
I Ice	U Acetone																																
J DI Water	V MCAA																																
K EDTA	W pH 4																																
L F-DA	Y Trizma																																
	Z Other (specify)																																
PO #		Total Number of containers:																															
Purchase Order Requested		Other: 																															
Project Name Milwaukee Construction		Preservation Codes: X N N N N N N N N N N																															

Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wash/oil, BT=Tissue Analysis)	Special Instructions/Note									
12	GP-1 (2-4)	8-11-22	1700	G	Solid	X X									
13	GP-1 (8-9)		1705		Solid										
14	GP-1 (9-10)		1210		Solid										
15	GP 2 (2-4)		1730		Solid										
16	GP 2 (7-9)		1735		Solid										
17	GP 4 (2-4)		1320		Solid										
18	GP 4 (9-10)		1325		Solid										
19	GP 4 (16-17)		1330		Solid										
20	GP 6 (0-5)		1335		Solid										
21	GP 6 (11-12)		1400		Solid										
22	GP 6 (22-23)		1405		Solid										

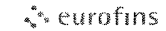
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Eurofins Chicago

24 7 Bond Street
University Park IL 60484
Phone 708 534 5200 Fax 708 534-5211

Chain of Custody Record

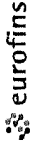


Client Information		Sample Name Danielle Coomey	Lab PM Fredrick Sandie	Carrier Tracking No.	COC No 500-104370-44667 3						
Client Contact Dunstan Glasford		Phone	E-Mail Sandra.Fredrick@eurofins.com	State of Origin WI	Page Page 3 of 3						
Company Ramboll US Corporation		PA/SIC	Analysis Requested								
Address 234 W Florida Street Fifth Floor Milwaukee WI 53204		Due Date Requested STD	Job # 500-220837								
City Milwaukee		TAT Requested (days)	Preservation Codes								
State/Zip WI 53204		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No	A HCL M Hexane B NaOH N None C Zn Acetate P Na2O4 D Nitric Acid Q Na2SO3 E NaHSO4 R Na2S2O3 F MeOH S H2SO4 G Amchlor T TSP Dodecylate H Ascorbic Acid U Acetone I Ice V pH 4 # J DI Water W Me K EDTA Y Trizma L EDA Z Other (specify)								
Phone 414-837 3687(Tel)		PO #	Other								
Email DGLASFORD@ramboll.com		Purchase Order Requested	Total Number of Containers								
Project Name Milwaukee Construction		WO #	Field Filtered Sample (Yes or No)								
Site		Project # 50010686	Perform MS/MSD (Yes or No)								
		SSON #	9250B VOC								
			9010C 7471B 8082A 8270D								
			2710F 8082A 9034 Calc 9046D 9066 9095B, D92								
			9281 Total Cl - Chlorine Total								
			8270E - SVOC								
			9010D 7470A								
			9012B Cyanide								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste)	BT-Tissue, A-Air				Special Instructions/Note	
				Preservation Code							
23	GP-8 (2-4)	8-11-22	1430	G	Solid		X	X			
24	GP-8 (6-7)	↓	1435	↓	Solid		↓	↓			
25	GP-8 (22-23)	↓	1440	↓	Solid		↓	↓			

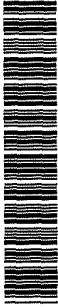
26	Protocol B	8-11-22	1530	C	Solid		X	X	X	X	
27	Trip Blank									Added by EETA 8/13/22 SH	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date	Time	Method of Shipment							
Relinquished by <i>[Signature]</i>		Date/Time 8/12/22 800	Company Ramboll	Received by <i>[Signature]</i>		Date/Time 8/12/22 800	Company Eurofins				
Relinquished by <i>[Signature]</i>		Date/Time 8-12-22 1400	Company Eurofins	Received by <i>[Signature]</i>		Date/Time 8/12/22 1430	Company EETA				
Relinquished by <i>[Signature]</i>		Date/Time 8/12/22 1745	Company EETA	Received by <i>[Signature]</i>		Date/Time 8/13/22 1745	Company EETA				
Custody Seals Intact Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No		Color Temperature, C and Other Remarks							

urofins Chicago
 117 Bond Street
 University Park, IL 60484
 Phone 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-164221 1																									
Client Contact: hipping/Receiving		E-Mail: Sandra.Fredrick@et.urofins.com	State of Origin: Wisconsin	Page: Page 1 of 1																									
Company: urofins Environment Testing Southeast		Accreditations Required (See note): State Program - Wisconsin																											
Address: 102 LaRoche Avenue,		Analysis Requested																											
City: Javannah	Due Date Requested: 8/25/2022	<table border="1"> <tr> <th>Field Filled Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9251 Total Chlorine, Total</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>			Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	9251 Total Chlorine, Total	Total Number of Containers	Special Instructions/Note:	X	X	X	1																
Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)				9251 Total Chlorine, Total	Total Number of Containers	Special Instructions/Note:																						
X	X				X	1																							
Date: 3A, 31404	TAT Requested (days):																												
Phone: 112-354-7858(Tel) 912-352-0165(Fax)	PO #:																												
Email: 112-354-7858(Tel) 912-352-0165(Fax)	WO #:																												
Project Name: Milwaukee Construction - 1690005255-002	Project #: 50010686																												
Site: Site:	SSOW#:																												
Sample Identification - Client ID (Lab ID)		Sample Type (C=comp, G=grab)	Sample Time	Sample Date	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=air)																								
Sample ID: Control B (500-220837-26)		Central	15:30	8/11/22	Solid																								
Page 1 of 172																													

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed Return To Client Disposal By Lab Archive For _____ Months
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by _____ Date: _____
 Relinquished by *Min Shuts* Date: 8/15/22 Company: *Company*
 Relinquished by _____ Date: _____ Company: _____
 Relinquished by _____ Date: _____ Company: _____
 Custody Seal No _____ Custody Seal No _____
 Cooler Temperature(s) °C and Other Remarks: *1-8/2.7*



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-220837-1

Login Number: 220837

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-220837-1

Login Number: 220837

List Number: 2

Creator: Bissonnette, Ian

List Source: Eurofins Savannah

List Creation: 08/16/22 12:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Susan Petrofske
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 7/28/2023 1:04:52 PM

JOB DESCRIPTION

Marquette AHPRC 16900

JOB NUMBER

500-236610-1

Eurofins Chicago

Job Notes

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

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

Authorization



Generated
7/28/2023 1:04:52 PM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Job ID: 500-236610-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-236610-1

Receipt

The samples were received on 7/14/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8° C and 4.0° C.

GC/MS VOA

Method 8260D: The method blank for analytical batch 500-723282 contained Naphthalene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-723447 was outside the method criteria for the following analyte(s): bis(chloroisopropyl) ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-723447 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol and 4-Nitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.46	J B	1.0	0.34	ug/L	1		8260D	Total/NA
Acenaphthene	0.40	J	0.88	0.27	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.32		0.18	0.050	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.23		0.18	0.087	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.29		0.18	0.071	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.11	J	0.18	0.056	ug/L	1		8270E	Total/NA
Chrysene	0.26		0.18	0.060	ug/L	1		8270E	Total/NA
Diethyl phthalate	2.5	J	4.4	0.32	ug/L	1		8270E	Total/NA
Fluoranthene	0.73	J	0.88	0.40	ug/L	1		8270E	Total/NA
Fluorene	0.22	J	0.88	0.21	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.18	0.065	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.10	J	1.8	0.057	ug/L	1		8270E	Total/NA
Naphthalene	0.34	J	0.88	0.27	ug/L	1		8270E	Total/NA
Phenanthrene	0.80	J	0.88	0.26	ug/L	1		8270E	Total/NA
Pyrene	0.58	J	0.88	0.37	ug/L	1		8270E	Total/NA
Arsenic	16		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	570		2.5	0.73	ug/L	1		6020B	Total Recoverable
Cadmium	0.78		0.50	0.17	ug/L	1		6020B	Total Recoverable
Chromium	44		5.0	1.1	ug/L	1		6020B	Total Recoverable
Lead	30	B	0.50	0.19	ug/L	1		6020B	Total Recoverable
Selenium	2.2	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Silver	0.12	J	0.50	0.12	ug/L	1		6020B	Total Recoverable

Client Sample ID: GP-13

Lab Sample ID: 500-236610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oil & Grease (HEM)	2.2	J	5.2	1.4	mg/L	1		1664B	Total/NA
Total Suspended Solids	1900		83	32	mg/L	1		SM 2540D	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236610-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
1664B	HEM and SGT-HEM	1664B	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
1664B	HEM and SGT-HEM (SPE)	1664B	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

1664B = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-236610-1	GP-13	Water	07/12/23 14:00	07/14/23 09:50
500-236610-2	GP-13	Water	07/13/23 14:00	07/14/23 09:50
500-236610-3	TRIP BLANK	Water	07/12/23 00:00	07/14/23 09:50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-1

Date Collected: 07/12/23 14:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/17/23 20:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/17/23 20:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/17/23 20:59	1
Bromoform	<0.48		1.0	0.48	ug/L			07/17/23 20:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/17/23 20:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/17/23 20:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/17/23 20:59	1
Chloroform	<0.37		2.0	0.37	ug/L			07/17/23 20:59	1
Chloromethane	<0.32		5.0	0.32	ug/L			07/17/23 20:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/17/23 20:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/17/23 20:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/17/23 20:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/17/23 20:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/17/23 20:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/17/23 20:59	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/17/23 20:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/17/23 20:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/17/23 20:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/17/23 20:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/17/23 20:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/17/23 20:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/17/23 20:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/17/23 20:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/17/23 20:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/17/23 20:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/17/23 20:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/17/23 20:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
Naphthalene	0.46	J B	1.0	0.34	ug/L			07/17/23 20:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/17/23 20:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 20:59	1
Styrene	<0.39		1.0	0.39	ug/L			07/17/23 20:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 20:59	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/17/23 20:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/17/23 20:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/17/23 20:59	1
Toluene	<0.15		0.50	0.15	ug/L			07/17/23 20:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/17/23 20:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-1

Date Collected: 07/12/23 14:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/17/23 20:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/17/23 20:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/17/23 20:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/17/23 20:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/17/23 20:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/17/23 20:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/17/23 20:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/17/23 20:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/17/23 20:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/17/23 20:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/17/23 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124					07/17/23 20:59	1
Dibromofluoromethane (Surr)	103		75 - 120					07/17/23 20:59	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126					07/17/23 20:59	1
Toluene-d8 (Surr)	99		75 - 120					07/17/23 20:59	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.40	J	0.88	0.27	ug/L		07/17/23 07:58	07/18/23 17:55	1
Acenaphthylene	<0.23		0.88	0.23	ug/L		07/17/23 07:58	07/18/23 17:55	1
Anthracene	<0.29		0.88	0.29	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzo[a]anthracene	0.32		0.18	0.050	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzo[a]pyrene	0.23		0.18	0.087	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzo[b]fluoranthene	0.29		0.18	0.071	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzo[g,h,i]perylene	<0.33		0.88	0.33	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzoic acid	<5.0		18	5.0	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzo[k]fluoranthene	0.11	J	0.18	0.056	ug/L		07/17/23 07:58	07/18/23 17:55	1
Benzyl alcohol	<5.3		18	5.3	ug/L		07/17/23 07:58	07/18/23 17:55	1
Bis(2-chloroethoxy)methane	<0.25		1.8	0.25	ug/L		07/17/23 07:58	07/18/23 17:55	1
Bis(2-chloroethyl)ether	<0.26		1.8	0.26	ug/L		07/17/23 07:58	07/18/23 17:55	1
Bis(2-ethylhexyl) phthalate	<1.5		8.8	1.5	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Bromophenyl phenyl ether	<0.47		4.4	0.47	ug/L		07/17/23 07:58	07/18/23 17:55	1
Butyl benzyl phthalate	<0.42		1.8	0.42	ug/L		07/17/23 07:58	07/18/23 17:55	1
Carbazole	<0.31		4.4	0.31	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Chloroaniline	<1.8		8.8	1.8	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Chloro-3-methylphenol	<2.0		8.8	2.0	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Chloronaphthalene	<0.21		1.8	0.21	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Chlorophenol	<0.49		4.4	0.49	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Chlorophenyl phenyl ether	<0.56		4.4	0.56	ug/L		07/17/23 07:58	07/18/23 17:55	1
Chrysene	0.26		0.18	0.060	ug/L		07/17/23 07:58	07/18/23 17:55	1
Dibenz(a,h)anthracene	<0.044		0.26	0.044	ug/L		07/17/23 07:58	07/18/23 17:55	1
Dibenzofuran	<0.23		1.8	0.23	ug/L		07/17/23 07:58	07/18/23 17:55	1
1,2-Dichlorobenzene	<0.22		1.8	0.22	ug/L		07/17/23 07:58	07/18/23 17:55	1
1,3-Dichlorobenzene	<0.18		1.8	0.18	ug/L		07/17/23 07:58	07/18/23 17:55	1
1,4-Dichlorobenzene	<0.18		1.8	0.18	ug/L		07/17/23 07:58	07/18/23 17:55	1
3,3'-Dichlorobenzidine	<1.5		4.4	1.5	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,4-Dichlorophenol	<2.3		8.8	2.3	ug/L		07/17/23 07:58	07/18/23 17:55	1
Diethyl phthalate	2.5	J	4.4	0.32	ug/L		07/17/23 07:58	07/18/23 17:55	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-1

Date Collected: 07/12/23 14:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<1.6		8.8	1.6	ug/L		07/17/23 07:58	07/18/23 17:55	1
Dimethyl phthalate	<0.27		4.4	0.27	ug/L		07/17/23 07:58	07/18/23 17:55	1
Di-n-butyl phthalate	<0.64		4.4	0.64	ug/L		07/17/23 07:58	07/18/23 17:55	1
4,6-Dinitro-2-methylphenol	<5.2		18	5.2	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,4-Dinitrophenol	<7.5		18	7.5	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,4-Dinitrotoluene	<0.21		0.88	0.21	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,6-Dinitrotoluene	<0.065		0.88	0.065	ug/L		07/17/23 07:58	07/18/23 17:55	1
Di-n-octyl phthalate	<0.92		8.8	0.92	ug/L		07/17/23 07:58	07/18/23 17:55	1
Fluoranthene	0.73	J	0.88	0.40	ug/L		07/17/23 07:58	07/18/23 17:55	1
Fluorene	0.22	J	0.88	0.21	ug/L		07/17/23 07:58	07/18/23 17:55	1
Hexachlorobenzene	<0.069		0.44	0.069	ug/L		07/17/23 07:58	07/18/23 17:55	1
Hexachlorobutadiene	<0.45		4.4	0.45	ug/L		07/17/23 07:58	07/18/23 17:55	1
Hexachlorocyclopentadiene	<5.6		18	5.6	ug/L		07/17/23 07:58	07/18/23 17:55	1
Hexachloroethane	<0.52		4.4	0.52	ug/L		07/17/23 07:58	07/18/23 17:55	1
Indeno[1,2,3-cd]pyrene	0.18		0.18	0.065	ug/L		07/17/23 07:58	07/18/23 17:55	1
Isophorone	<0.33		1.8	0.33	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Methylnaphthalene	0.10	J	1.8	0.057	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Methylphenol	<0.27		1.8	0.27	ug/L		07/17/23 07:58	07/18/23 17:55	1
3 & 4 Methylphenol	<0.39		1.8	0.39	ug/L		07/17/23 07:58	07/18/23 17:55	1
Naphthalene	0.34	J	0.88	0.27	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Nitroaniline	<1.1		4.4	1.1	ug/L		07/17/23 07:58	07/18/23 17:55	1
3-Nitroaniline	<1.6		8.8	1.6	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Nitroaniline	<1.5		8.8	1.5	ug/L		07/17/23 07:58	07/18/23 17:55	1
Nitrobenzene	<0.39		0.88	0.39	ug/L		07/17/23 07:58	07/18/23 17:55	1
2-Nitrophenol	<2.2		8.8	2.2	ug/L		07/17/23 07:58	07/18/23 17:55	1
4-Nitrophenol	<6.5		18	6.5	ug/L		07/17/23 07:58	07/18/23 17:55	1
N-Nitrosodi-n-propylamine	<0.13		0.44	0.13	ug/L		07/17/23 07:58	07/18/23 17:55	1
N-Nitrosodiphenylamine	<0.32		1.8	0.32	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,2'-oxybis[1-chloropropane]	<0.33		1.8	0.33	ug/L		07/17/23 07:58	07/18/23 17:55	1
Pentachlorophenol	<3.4		18	3.4	ug/L		07/17/23 07:58	07/18/23 17:55	1
Phenanthrene	0.80	J	0.88	0.26	ug/L		07/17/23 07:58	07/18/23 17:55	1
Phenol	<0.59		4.4	0.59	ug/L		07/17/23 07:58	07/18/23 17:55	1
Pyrene	0.58	J	0.88	0.37	ug/L		07/17/23 07:58	07/18/23 17:55	1
1,2,4-Trichlorobenzene	<0.21		1.8	0.21	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,4,5-Trichlorophenol	<2.2		8.8	2.2	ug/L		07/17/23 07:58	07/18/23 17:55	1
2,4,6-Trichlorophenol	<0.63		4.4	0.63	ug/L		07/17/23 07:58	07/18/23 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		34 - 110	07/17/23 07:58	07/18/23 17:55	1
2-Fluorophenol (Surr)	54		27 - 110	07/17/23 07:58	07/18/23 17:55	1
Nitrobenzene-d5 (Surr)	88		36 - 120	07/17/23 07:58	07/18/23 17:55	1
Phenol-d5 (Surr)	40		20 - 110	07/17/23 07:58	07/18/23 17:55	1
Terphenyl-d14 (Surr)	94		40 - 145	07/17/23 07:58	07/18/23 17:55	1
2,4,6-Tribromophenol (Surr)	91		40 - 145	07/17/23 07:58	07/18/23 17:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		1.0	0.23	ug/L		07/17/23 09:05	07/19/23 21:33	1
Barium	570		2.5	0.73	ug/L		07/17/23 09:05	07/19/23 21:33	1
Cadmium	0.78		0.50	0.17	ug/L		07/17/23 09:05	07/19/23 21:33	1

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-1

Date Collected: 07/12/23 14:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	44		5.0	1.1	ug/L		07/17/23 09:05	07/19/23 21:33	1
Lead	30	B	0.50	0.19	ug/L		07/17/23 09:05	07/19/23 21:33	1
Selenium	2.2	J	2.5	0.98	ug/L		07/17/23 09:05	07/19/23 21:33	1
Silver	0.12	J	0.50	0.12	ug/L		07/17/23 09:05	07/19/23 21:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		07/24/23 10:55	07/25/23 07:41	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13

Lab Sample ID: 500-236610-2

Date Collected: 07/13/23 14:00

Matrix: Water

Date Received: 07/14/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM) (1664B)	2.2	J	5.2	1.4	mg/L		07/24/23 08:24	07/24/23 08:29	1
Total Suspended Solids (SM 2540D)	1900		83	32	mg/L			07/20/23 09:33	1

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236610-3

Date Collected: 07/12/23 00:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/17/23 14:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/17/23 14:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/17/23 14:28	1
Bromoform	<0.48		1.0	0.48	ug/L			07/17/23 14:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/17/23 14:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/17/23 14:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/17/23 14:28	1
Chloroform	<0.37		2.0	0.37	ug/L			07/17/23 14:28	1
Chloromethane	<0.32		5.0	0.32	ug/L			07/17/23 14:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/17/23 14:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/17/23 14:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/17/23 14:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/17/23 14:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/17/23 14:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/17/23 14:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/17/23 14:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/17/23 14:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/17/23 14:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/17/23 14:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/17/23 14:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/17/23 14:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/17/23 14:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/17/23 14:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/17/23 14:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/17/23 14:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/17/23 14:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/17/23 14:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/17/23 14:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:28	1
Styrene	<0.39		1.0	0.39	ug/L			07/17/23 14:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/17/23 14:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/17/23 14:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/17/23 14:28	1
Toluene	<0.15		0.50	0.15	ug/L			07/17/23 14:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/17/23 14:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236610-3

Date Collected: 07/12/23 00:00

Matrix: Water

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/17/23 14:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/17/23 14:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/17/23 14:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/17/23 14:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/17/23 14:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/17/23 14:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/17/23 14:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/17/23 14:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/17/23 14:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/17/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		07/17/23 14:28	1
Dibromofluoromethane (Surr)	98		75 - 120		07/17/23 14:28	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		07/17/23 14:28	1
Toluene-d8 (Surr)	102		75 - 120		07/17/23 14:28	1

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

GC/MS VOA

Analysis Batch: 723282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total/NA	Water	8260D	
500-236610-3	TRIP BLANK	Total/NA	Water	8260D	
MB 500-723282/7	Method Blank	Total/NA	Water	8260D	
LCS 500-723282/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 723269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total/NA	Water	3510C	
MB 500-723269/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-723269/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-723269/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 723447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total/NA	Water	8270E	723269
MB 500-723269/1-A	Method Blank	Total/NA	Water	8270E	723269
LCS 500-723269/2-A	Lab Control Sample	Total/NA	Water	8270E	723269
LCSD 500-723269/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	723269

Metals

Prep Batch: 723288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total Recoverable	Water	3005A	
MB 500-723288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-723288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 723984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total Recoverable	Water	6020B	723288
MB 500-723288/1-A	Method Blank	Total Recoverable	Water	6020B	723288
LCS 500-723288/2-A	Lab Control Sample	Total Recoverable	Water	6020B	723288

Prep Batch: 724510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total/NA	Water	7470A	
MB 500-724510/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-724510/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 724674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-1	GP-13	Total/NA	Water	7470A	724510
MB 500-724510/12-A	Method Blank	Total/NA	Water	7470A	724510
LCS 500-724510/13-A	Lab Control Sample	Total/NA	Water	7470A	724510

General Chemistry

Analysis Batch: 723937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-2	GP-13	Total/NA	Water	SM 2540D	

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QC Association Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

General Chemistry (Continued)

Analysis Batch: 723937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-723937/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-723937/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 724461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-2	GP-13	Total/NA	Water	1664B	
MB 500-724461/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-724461/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 724463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236610-2	GP-13	Total/NA	Water	1664B	724461
MB 500-724461/1-A	Method Blank	Total/NA	Water	1664B	724461
LCS 500-724461/2-A	Lab Control Sample	Total/NA	Water	1664B	724461

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-236610-1	GP-13	103	103	107	99
500-236610-3	TRIP BLANK	98	98	100	102
LCS 500-723282/4	Lab Control Sample	100	100	104	100
MB 500-723282/7	Method Blank	102	101	105	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)	TBP (40-145)
500-236610-1	GP-13	76	54	88	40	94	91
LCS 500-723269/2-A	Lab Control Sample	74	56	90	40	94	93
LCSD 500-723269/3-A	Lab Control Sample Dup	75	58	90	41	99	98
MB 500-723269/1-A	Method Blank	76	58	93	41	102	83

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-723282/7
Matrix: Water
Analysis Batch: 723282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			07/17/23 14:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/17/23 14:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/17/23 14:05	1
Bromoform	<0.48		1.0	0.48	ug/L			07/17/23 14:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/17/23 14:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/17/23 14:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/17/23 14:05	1
Chloroform	<0.37		2.0	0.37	ug/L			07/17/23 14:05	1
Chloromethane	<0.32		5.0	0.32	ug/L			07/17/23 14:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/17/23 14:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/17/23 14:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/17/23 14:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/17/23 14:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/17/23 14:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/17/23 14:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/17/23 14:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/17/23 14:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/17/23 14:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/17/23 14:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/17/23 14:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/17/23 14:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/17/23 14:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/17/23 14:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/17/23 14:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/17/23 14:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/17/23 14:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
Naphthalene	0.368	J	1.0	0.34	ug/L			07/17/23 14:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/17/23 14:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:05	1
Styrene	<0.39		1.0	0.39	ug/L			07/17/23 14:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/17/23 14:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/17/23 14:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/17/23 14:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/17/23 14:05	1
Toluene	<0.15		0.50	0.15	ug/L			07/17/23 14:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/17/23 14:05	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

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

Lab Sample ID: MB 500-723282/7
Matrix: Water
Analysis Batch: 723282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/17/23 14:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/17/23 14:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/17/23 14:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/17/23 14:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/17/23 14:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/17/23 14:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/17/23 14:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/17/23 14:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/17/23 14:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/17/23 14:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/17/23 14:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		72 - 124		07/17/23 14:05	1
Dibromofluoromethane (Surr)	101		75 - 120		07/17/23 14:05	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		07/17/23 14:05	1
Toluene-d8 (Surr)	100		75 - 120		07/17/23 14:05	1

Lab Sample ID: LCS 500-723282/4
Matrix: Water
Analysis Batch: 723282

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	53.8		ug/L		108	70 - 122
Bromochloromethane	50.0	52.3		ug/L		105	65 - 122
Bromodichloromethane	50.0	55.5		ug/L		111	69 - 120
Bromoform	50.0	56.3		ug/L		113	56 - 132
Bromomethane	50.0	53.4		ug/L		107	40 - 152
Carbon tetrachloride	50.0	54.7		ug/L		109	59 - 133
Chlorobenzene	50.0	53.5		ug/L		107	70 - 120
Chloroethane	50.0	46.5		ug/L		93	48 - 136
Chloroform	50.0	52.6		ug/L		105	70 - 120
Chloromethane	50.0	50.8		ug/L		102	56 - 152
2-Chlorotoluene	50.0	55.4		ug/L		111	70 - 125
4-Chlorotoluene	50.0	56.8		ug/L		114	68 - 124
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 125
cis-1,3-Dichloropropene	50.0	57.3		ug/L		115	64 - 127
Dibromochloromethane	50.0	57.9		ug/L		116	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.4		ug/L		115	56 - 123
1,2-Dibromoethane	50.0	55.7		ug/L		111	70 - 125
Dibromomethane	50.0	54.7		ug/L		109	70 - 120
1,2-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 125
1,3-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 125
1,4-Dichlorobenzene	50.0	53.7		ug/L		107	70 - 120
Dichlorodifluoromethane	50.0	48.9		ug/L		98	40 - 159
1,1-Dichloroethane	50.0	52.5		ug/L		105	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

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

Lab Sample ID: LCS 500-723282/4
Matrix: Water
Analysis Batch: 723282

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	57.2		ug/L		114	68 - 127
1,1-Dichloroethene	50.0	47.0		ug/L		94	67 - 122
1,2-Dichloropropane	50.0	54.6		ug/L		109	67 - 130
1,3-Dichloropropane	50.0	55.4		ug/L		111	62 - 136
2,2-Dichloropropane	50.0	51.7		ug/L		103	58 - 139
1,1-Dichloropropene	50.0	51.2		ug/L		102	70 - 121
Ethylbenzene	50.0	53.4		ug/L		107	70 - 123
Hexachlorobutadiene	50.0	51.9		ug/L		104	51 - 150
Isopropylbenzene	50.0	54.2		ug/L		108	70 - 126
Methylene Chloride	50.0	49.8		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	52.5		ug/L		105	55 - 123
Naphthalene	50.0	54.8		ug/L		110	53 - 144
n-Butylbenzene	50.0	55.3		ug/L		111	68 - 125
N-Propylbenzene	50.0	55.6		ug/L		111	69 - 127
p-Isopropyltoluene	50.0	55.6		ug/L		111	70 - 125
sec-Butylbenzene	50.0	55.0		ug/L		110	70 - 123
Styrene	50.0	55.0		ug/L		110	70 - 120
tert-Butylbenzene	50.0	54.7		ug/L		109	70 - 121
1,1,1,2-Tetrachloroethane	50.0	57.2		ug/L		114	70 - 125
1,1,2,2-Tetrachloroethane	50.0	56.5		ug/L		113	62 - 140
Tetrachloroethene	50.0	51.2		ug/L		102	70 - 128
Toluene	50.0	51.1		ug/L		102	70 - 125
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112	62 - 128
1,2,3-Trichlorobenzene	50.0	53.9		ug/L		108	51 - 145
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	57 - 137
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	70 - 125
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	71 - 130
Trichloroethene	50.0	53.6		ug/L		107	70 - 125
Trichlorofluoromethane	50.0	53.6		ug/L		107	55 - 128
1,2,3-Trichloropropane	50.0	57.4		ug/L		115	50 - 133
1,2,4-Trimethylbenzene	50.0	56.2		ug/L		112	70 - 123
1,3,5-Trimethylbenzene	50.0	57.5		ug/L		115	70 - 123
Vinyl chloride	50.0	51.4		ug/L		103	64 - 126
Xylenes, Total	100	107		ug/L		107	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		72 - 124
Dibromofluoromethane (Surr)	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
Toluene-d8 (Surr)	100		75 - 120

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-723269/1-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723269

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.25		0.80	0.25	ug/L		07/17/23 07:58	07/18/23 13:22	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		07/17/23 07:58	07/18/23 13:22	1
Anthracene	<0.27		0.80	0.27	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzoic acid	<4.6		16	4.6	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		07/17/23 07:58	07/18/23 13:22	1
Benzyl alcohol	<4.8		16	4.8	ug/L		07/17/23 07:58	07/18/23 13:22	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		07/17/23 07:58	07/18/23 13:22	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		07/17/23 07:58	07/18/23 13:22	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		07/17/23 07:58	07/18/23 13:22	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		07/17/23 07:58	07/18/23 13:22	1
Carbazole	<0.28		4.0	0.28	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L		07/17/23 07:58	07/18/23 13:22	1
Chrysene	<0.055		0.16	0.055	ug/L		07/17/23 07:58	07/18/23 13:22	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		07/17/23 07:58	07/18/23 13:22	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		07/17/23 07:58	07/18/23 13:22	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L		07/17/23 07:58	07/18/23 13:22	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L		07/17/23 07:58	07/18/23 13:22	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L		07/17/23 07:58	07/18/23 13:22	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		07/17/23 07:58	07/18/23 13:22	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		07/17/23 07:58	07/18/23 13:22	1
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		07/17/23 07:58	07/18/23 13:22	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		07/17/23 07:58	07/18/23 13:22	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		07/17/23 07:58	07/18/23 13:22	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		07/17/23 07:58	07/18/23 13:22	1
Fluoranthene	<0.36		0.80	0.36	ug/L		07/17/23 07:58	07/18/23 13:22	1
Fluorene	<0.20		0.80	0.20	ug/L		07/17/23 07:58	07/18/23 13:22	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		07/17/23 07:58	07/18/23 13:22	1
Hexachlorobutadiene	<0.41		4.0	0.41	ug/L		07/17/23 07:58	07/18/23 13:22	1
Hexachlorocyclopentadiene	<5.1		16	5.1	ug/L		07/17/23 07:58	07/18/23 13:22	1
Hexachloroethane	<0.48		4.0	0.48	ug/L		07/17/23 07:58	07/18/23 13:22	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		07/17/23 07:58	07/18/23 13:22	1
Isophorone	<0.30		1.6	0.30	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		07/17/23 07:58	07/18/23 13:22	1

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-723269/1-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723269

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		07/17/23 07:58	07/18/23 13:22	1
Naphthalene	<0.25		0.80	0.25	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		07/17/23 07:58	07/18/23 13:22	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		07/17/23 07:58	07/18/23 13:22	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		07/17/23 07:58	07/18/23 13:22	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		07/17/23 07:58	07/18/23 13:22	1
4-Nitrophenol	<5.9		16	5.9	ug/L		07/17/23 07:58	07/18/23 13:22	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		07/17/23 07:58	07/18/23 13:22	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		07/17/23 07:58	07/18/23 13:22	1
Pentachlorophenol	<3.2		16	3.2	ug/L		07/17/23 07:58	07/18/23 13:22	1
Phenanthrene	<0.24		0.80	0.24	ug/L		07/17/23 07:58	07/18/23 13:22	1
Phenol	<0.54		4.0	0.54	ug/L		07/17/23 07:58	07/18/23 13:22	1
Pyrene	<0.34		0.80	0.34	ug/L		07/17/23 07:58	07/18/23 13:22	1
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		07/17/23 07:58	07/18/23 13:22	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		07/17/23 07:58	07/18/23 13:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	76		34 - 110	07/17/23 07:58	07/18/23 13:22	1
2-Fluorophenol (Surr)	58		27 - 110	07/17/23 07:58	07/18/23 13:22	1
Nitrobenzene-d5 (Surr)	93		36 - 120	07/17/23 07:58	07/18/23 13:22	1
Phenol-d5 (Surr)	41		20 - 110	07/17/23 07:58	07/18/23 13:22	1
Terphenyl-d14 (Surr)	102		40 - 145	07/17/23 07:58	07/18/23 13:22	1
2,4,6-Tribromophenol (Surr)	83		40 - 145	07/17/23 07:58	07/18/23 13:22	1

Lab Sample ID: LCS 500-723269/2-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	32.0	25.4		ug/L		79	47 - 113
Anthracene	32.0	28.4		ug/L		89	67 - 118
Benzo[a]anthracene	32.0	28.7		ug/L		90	70 - 126
Benzo[a]pyrene	32.0	34.1		ug/L		107	70 - 135
Benzo[b]fluoranthene	32.0	33.3		ug/L		104	69 - 136
Benzo[g,h,i]perylene	32.0	33.3		ug/L		104	70 - 135
Benzoic acid	64.0	31.8		ug/L		50	10 - 112
Benzo[k]fluoranthene	32.0	31.4		ug/L		98	70 - 133
Benzyl alcohol	32.0	21.5		ug/L		67	46 - 132
Bis(2-chloroethoxy)methane	32.0	25.7		ug/L		80	59 - 118
Bis(2-chloroethyl)ether	32.0	23.9		ug/L		75	54 - 112
Bis(2-ethylhexyl) phthalate	32.0	34.0		ug/L		106	69 - 136
4-Bromophenyl phenyl ether	32.0	27.9		ug/L		87	58 - 120
Butyl benzyl phthalate	32.0	35.3		ug/L		110	68 - 135
Carbazole	32.0	29.5		ug/L		92	61 - 145

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-723269/2-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	32.0	21.4		ug/L		67	35 - 128
4-Chloro-3-methylphenol	32.0	29.5		ug/L		92	64 - 128
2-Chloronaphthalene	32.0	22.0		ug/L		69	39 - 110
2-Chlorophenol	32.0	24.1		ug/L		75	59 - 110
4-Chlorophenyl phenyl ether	32.0	24.4		ug/L		76	48 - 116
Chrysene	32.0	29.2		ug/L		91	68 - 129
Dibenz(a,h)anthracene	32.0	36.2		ug/L		113	70 - 134
Dibenzofuran	32.0	25.2		ug/L		79	51 - 110
1,2-Dichlorobenzene	32.0	17.8		ug/L		56	26 - 110
1,3-Dichlorobenzene	32.0	16.8		ug/L		52	22 - 110
1,4-Dichlorobenzene	32.0	17.2		ug/L		54	23 - 110
3,3'-Dichlorobenzidine	32.0	31.0		ug/L		97	60 - 132
2,4-Dichlorophenol	32.0	25.6		ug/L		80	58 - 120
Diethyl phthalate	32.0	31.6		ug/L		99	62 - 123
2,4-Dimethylphenol	32.0	25.5		ug/L		80	51 - 115
Dimethyl phthalate	32.0	29.9		ug/L		94	63 - 122
Di-n-butyl phthalate	32.0	33.1		ug/L		104	69 - 129
4,6-Dinitro-2-methylphenol	64.0	75.7		ug/L		118	50 - 129
2,4-Dinitrophenol	64.0	74.2		ug/L		116	37 - 130
2,4-Dinitrotoluene	32.0	31.3		ug/L		98	63 - 129
2,6-Dinitrotoluene	32.0	30.8		ug/L		96	63 - 129
Di-n-octyl phthalate	32.0	34.6		ug/L		108	68 - 137
Fluoranthene	32.0	31.7		ug/L		99	68 - 126
Fluorene	32.0	25.6		ug/L		80	53 - 120
Hexachlorobenzene	32.0	27.1		ug/L		85	61 - 126
Hexachlorobutadiene	32.0	16.0		ug/L		50	20 - 100
Hexachlorocyclopentadiene	32.0	9.50	J	ug/L		30	10 - 105
Hexachloroethane	32.0	15.3		ug/L		48	20 - 100
Indeno[1,2,3-cd]pyrene	32.0	35.7		ug/L		111	65 - 133
Isophorone	32.0	23.1		ug/L		72	54 - 127
2-Methylnaphthalene	32.0	20.8		ug/L		65	34 - 110
2-Methylphenol	32.0	23.4		ug/L		73	53 - 115
3 & 4 Methylphenol	32.0	21.4		ug/L		67	50 - 116
Naphthalene	32.0	21.8		ug/L		68	36 - 110
2-Nitroaniline	32.0	34.0		ug/L		106	59 - 138
3-Nitroaniline	32.0	30.8		ug/L		96	47 - 123
4-Nitroaniline	32.0	32.8		ug/L		102	35 - 110
Nitrobenzene	32.0	27.5		ug/L		86	54 - 121
2-Nitrophenol	32.0	30.1		ug/L		94	59 - 115
4-Nitrophenol	64.0	39.4		ug/L		62	20 - 110
N-Nitrosodi-n-propylamine	32.0	25.4		ug/L		79	47 - 131
N-Nitrosodiphenylamine	32.0	28.8		ug/L		90	66 - 120
2,2'-oxybis[1-chloropropane]	32.0	20.3		ug/L		64	38 - 140
Pentachlorophenol	64.0	47.4		ug/L		74	42 - 148
Phenanthrene	32.0	28.7		ug/L		90	65 - 120
Phenol	32.0	13.9		ug/L		44	33 - 100
Pyrene	32.0	31.5		ug/L		98	70 - 126
1,2,4-Trichlorobenzene	32.0	18.6		ug/L		58	26 - 110
2,4,5-Trichlorophenol	32.0	27.7		ug/L		87	63 - 124

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-723269/2-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	32.0	27.1		ug/L		85	62 - 121
Surrogate							
	%Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	74		34 - 110				
2-Fluorophenol (Surr)	56		27 - 110				
Nitrobenzene-d5 (Surr)	90		36 - 120				
Phenol-d5 (Surr)	40		20 - 110				
Terphenyl-d14 (Surr)	94		40 - 145				
2,4,6-Tribromophenol (Surr)	93		40 - 145				

Lab Sample ID: LCSD 500-723269/3-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	32.0	25.2		ug/L		79	46 - 110	5	20
Acenaphthylene	32.0	25.8		ug/L		81	47 - 113	2	20
Anthracene	32.0	29.3		ug/L		91	67 - 118	3	20
Benzo[a]anthracene	32.0	30.9		ug/L		97	70 - 126	7	20
Benzo[a]pyrene	32.0	36.3		ug/L		113	70 - 135	6	20
Benzo[b]fluoranthene	32.0	35.3		ug/L		110	69 - 136	6	20
Benzo[g,h,i]perylene	32.0	34.4		ug/L		107	70 - 135	3	20
Benzoic acid	64.0	33.4		ug/L		52	10 - 112	5	20
Benzo[k]fluoranthene	32.0	32.9		ug/L		103	70 - 133	5	20
Benzyl alcohol	32.0	23.5		ug/L		74	46 - 132	9	20
Bis(2-chloroethoxy)methane	32.0	25.7		ug/L		80	59 - 118	0	20
Bis(2-chloroethyl)ether	32.0	25.3		ug/L		79	54 - 112	6	20
Bis(2-ethylhexyl) phthalate	32.0	36.9		ug/L		115	69 - 136	8	20
4-Bromophenyl phenyl ether	32.0	29.0		ug/L		91	58 - 120	4	20
Butyl benzyl phthalate	32.0	38.7		ug/L		121	68 - 135	9	20
Carbazole	32.0	31.8		ug/L		99	61 - 145	8	20
4-Chloroaniline	32.0	21.7		ug/L		68	35 - 128	2	20
4-Chloro-3-methylphenol	32.0	30.9		ug/L		97	64 - 128	5	20
2-Chloronaphthalene	32.0	21.9		ug/L		69	39 - 110	0	20
2-Chlorophenol	32.0	25.9		ug/L		81	59 - 110	7	20
4-Chlorophenyl phenyl ether	32.0	25.1		ug/L		79	48 - 116	3	20
Chrysene	32.0	32.3		ug/L		101	68 - 129	10	20
Dibenz(a,h)anthracene	32.0	36.8		ug/L		115	70 - 134	2	20
Dibenzofuran	32.0	25.6		ug/L		80	51 - 110	2	20
1,2-Dichlorobenzene	32.0	17.4		ug/L		54	26 - 110	2	20
1,3-Dichlorobenzene	32.0	16.1		ug/L		50	22 - 110	4	20
1,4-Dichlorobenzene	32.0	16.4		ug/L		51	23 - 110	5	20
3,3'-Dichlorobenzidine	32.0	33.8		ug/L		106	60 - 132	9	20
2,4-Dichlorophenol	32.0	26.8		ug/L		84	58 - 120	5	20
Diethyl phthalate	32.0	34.2		ug/L		107	62 - 123	8	20
2,4-Dimethylphenol	32.0	26.1		ug/L		82	51 - 115	2	20
Dimethyl phthalate	32.0	31.4		ug/L		98	63 - 122	5	20
Di-n-butyl phthalate	32.0	35.2		ug/L		110	69 - 129	6	20

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-723269/3-A
Matrix: Water
Analysis Batch: 723447

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 723269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	64.0	80.4		ug/L		126	50 - 129	6	20
2,4-Dinitrophenol	64.0	78.2		ug/L		122	37 - 130	5	20
2,4-Dinitrotoluene	32.0	33.4		ug/L		104	63 - 129	7	20
2,6-Dinitrotoluene	32.0	32.8		ug/L		102	63 - 129	6	20
Di-n-octyl phthalate	32.0	36.4		ug/L		114	68 - 137	5	20
Fluoranthene	32.0	32.9		ug/L		103	68 - 126	4	20
Fluorene	32.0	26.8		ug/L		84	53 - 120	5	20
Hexachlorobenzene	32.0	28.7		ug/L		90	61 - 126	6	20
Hexachlorobutadiene	32.0	14.0		ug/L		44	20 - 100	13	20
Hexachlorocyclopentadiene	32.0	8.55	J	ug/L		27	10 - 105	11	20
Hexachloroethane	32.0	14.1		ug/L		44	20 - 100	8	20
Indeno[1,2,3-cd]pyrene	32.0	37.4		ug/L		117	65 - 133	5	20
Isophorone	32.0	24.1		ug/L		75	54 - 127	4	20
2-Methylnaphthalene	32.0	20.4		ug/L		64	34 - 110	2	20
2-Methylphenol	32.0	24.2		ug/L		76	53 - 115	3	20
3 & 4 Methylphenol	32.0	22.8		ug/L		71	50 - 116	6	20
Naphthalene	32.0	22.2		ug/L		69	36 - 110	2	20
2-Nitroaniline	32.0	35.8		ug/L		112	59 - 138	5	20
3-Nitroaniline	32.0	32.6		ug/L		102	47 - 123	5	20
4-Nitroaniline	32.0	34.3		ug/L		107	35 - 110	4	20
Nitrobenzene	32.0	29.0		ug/L		91	54 - 121	5	20
2-Nitrophenol	32.0	32.2		ug/L		101	59 - 115	7	20
4-Nitrophenol	64.0	44.9		ug/L		70	20 - 110	13	20
N-Nitrosodi-n-propylamine	32.0	26.6		ug/L		83	47 - 131	5	20
N-Nitrosodiphenylamine	32.0	29.9		ug/L		94	66 - 120	4	20
2,2'-oxybis[1-chloropropane]	32.0	21.0		ug/L		66	38 - 140	3	20
Pentachlorophenol	64.0	49.8		ug/L		78	42 - 148	5	20
Phenanthrene	32.0	29.5		ug/L		92	65 - 120	3	20
Phenol	32.0	14.9		ug/L		47	33 - 100	7	20
Pyrene	32.0	32.8		ug/L		102	70 - 126	4	20
1,2,4-Trichlorobenzene	32.0	17.8		ug/L		56	26 - 110	5	20
2,4,5-Trichlorophenol	32.0	29.8		ug/L		93	63 - 124	7	20
2,4,6-Trichlorophenol	32.0	28.6		ug/L		90	62 - 121	5	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	75		34 - 110
2-Fluorophenol (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	90		36 - 120
Phenol-d5 (Surr)	41		20 - 110
Terphenyl-d14 (Surr)	99		40 - 145
2,4,6-Tribromophenol (Surr)	98		40 - 145

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-723288/1-A
Matrix: Water
Analysis Batch: 723984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 723288

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.23		1.0	0.23	ug/L		07/17/23 09:05	07/19/23 19:50	1
Barium	<0.73		2.5	0.73	ug/L		07/17/23 09:05	07/19/23 19:50	1
Cadmium	<0.17		0.50	0.17	ug/L		07/17/23 09:05	07/19/23 19:50	1
Chromium	<1.1		5.0	1.1	ug/L		07/17/23 09:05	07/19/23 19:50	1
Lead	0.314	J	0.50	0.19	ug/L		07/17/23 09:05	07/19/23 19:50	1
Selenium	<0.98		2.5	0.98	ug/L		07/17/23 09:05	07/19/23 19:50	1
Silver	<0.12		0.50	0.12	ug/L		07/17/23 09:05	07/19/23 19:50	1

Lab Sample ID: LCS 500-723288/2-A
Matrix: Water
Analysis Batch: 723984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 723288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	500	514		ug/L		103	80 - 120
Cadmium	50.0	53.0		ug/L		106	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Lead	100	107		ug/L		107	80 - 120
Selenium	100	102		ug/L		102	80 - 120
Silver	50.0	54.3		ug/L		109	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-724510/12-A
Matrix: Water
Analysis Batch: 724674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724510

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.079		0.20	0.079	ug/L		07/24/23 10:55	07/25/23 07:33	1

Lab Sample ID: LCS 500-724510/13-A
Matrix: Water
Analysis Batch: 724674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-724461/1-A
Matrix: Water
Analysis Batch: 724463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724461

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Oil & Grease (HEM)	<1.3		5.0	1.3	mg/L		07/24/23 08:24	07/24/23 08:29	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 500-724461/2-A
 Matrix: Water
 Analysis Batch: 724463

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 724461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Oil & Grease (HEM)	40.0	33.20		mg/L		83	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-723937/1
 Matrix: Water
 Analysis Batch: 723937

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/20/23 09:26	1

Lab Sample ID: LCS 500-723937/2
 Matrix: Water
 Analysis Batch: 723937

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	206		mg/L		103	80 - 120

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Client Sample ID: GP-13
Date Collected: 07/12/23 14:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236610-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	723282	W1T	EET CHI	07/17/23 20:59
Total/NA	Prep	3510C			723269	KL	EET CHI	07/17/23 07:58
Total/NA	Analysis	8270E		1	723447	SS	EET CHI	07/18/23 17:55
Total Recoverable	Prep	3005A			723288	BDE	EET CHI	07/17/23 09:05 - 07/17/23 09:35 ¹
Total Recoverable	Analysis	6020B		1	723984	FXG	EET CHI	07/19/23 21:33
Total/NA	Prep	7470A			724510	MJG	EET CHI	07/24/23 10:55 - 07/24/23 12:55 ¹
Total/NA	Analysis	7470A		1	724674	MJG	EET CHI	07/25/23 07:41

Client Sample ID: GP-13
Date Collected: 07/13/23 14:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236610-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1664B			724461	AM	EET CHI	07/24/23 08:24
Total/NA	Analysis	1664B		1	724463	AM	EET CHI	07/24/23 08:29
Total/NA	Analysis	SM 2540D		1	723937	MB	EET CHI	07/20/23 09:33 - 07/20/23 09:35 ¹

Client Sample ID: TRIP BLANK
Date Collected: 07/12/23 00:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236610-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	723282	W1T	EET CHI	07/17/23 14:28

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236610-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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- 14
- 15

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 13JUL23
ACTWGT: 20.95 LB
CAD: 0269688/CAFE3709

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

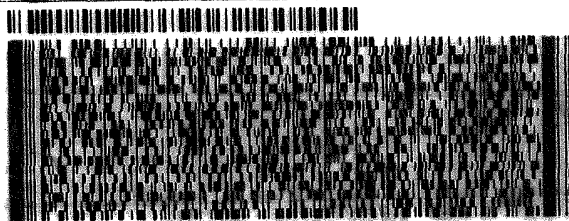
UNIVERSITY PARK IL 60484

(262) 202-5955

REF:

INU:

DEPT:



FedEx
Express



J23102211020114

1 of 2

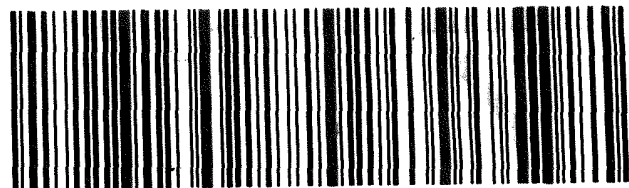
TRK# 6578 9770 9360

MASTER

79 JOTA

FRI - 14 JUL 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD



Uget

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 13JUL23
ACTWGT: 51.85 LB
CAD: 0269688/CAFE3709

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

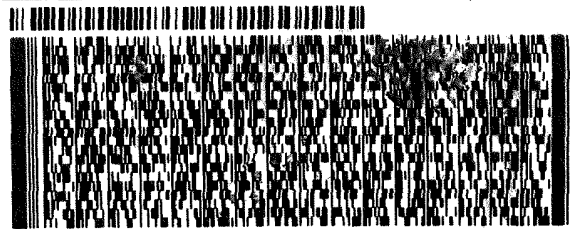
UNIVERSITY PARK IL 60484

(262) 202-5955

REF:

INU:

DEPT:



FedEx
Express



J23102211020114

2 of 2

MPS# 6578 9770 9371

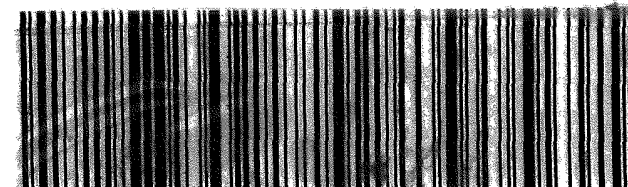
Mstr# 6578 9770 9360

79 JOTA

FRI - 14 JUL 10:30A
PRIORITY OVERNIGHT

0201

60484
IL-US ORD



Y8at



500-236610 Waybi

50964/CAF4/FF2B

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Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-236610-1

Login Number: 236610

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0,1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Susan Petrofske
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 7/28/2023 1:16:21 PM

JOB DESCRIPTION

Marquette AHPRC 16900

JOB NUMBER

500-236611-1

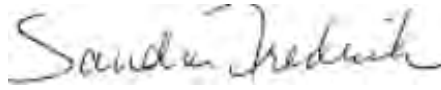
Eurofins Chicago

Job Notes

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

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

Authorization



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7/28/2023 1:16:21 PM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Job ID: 500-236611-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-236611-1

Receipt

The samples were received on 7/14/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

GC/MS VOA

Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. GP-10 (2-4) (500-236611-5), GP-11 (2-4) (500-236611-8), GP-12 (10-12) (500-236611-12), GP-13 (16-18) (500-236611-16) and GP-14 (10-12) (500-236611-18)

Method 8260D: Methylene chloride was detected in the following items: GP-9 (2-4) (500-236611-1), GP-11 (2-4) (500-236611-8), GP-11 (16-18) (500-236611-10), GP-12 (16-18) (500-236611-13) and GP-13 (2-4) (500-236611-14). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260D: Surrogate Dibromofluoromethane (Surr) and 1,2-Dichloroethane-d4 (Surr) recovery for the following samples were outside the upper control limit: GP-9 (2-4) (500-236611-1), GP-11 (10-12) (500-236611-9), GP-11 (16-18) (500-236611-10), GP-13 (16-18) (500-236611-16), GP-14 (2-4) (500-236611-17), GP-14 (16-18) (500-236611-19) and (LB3 500-723857/21-A). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The method blank for preparation batch <PrepBatch> contained analytes above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of sample was not performed.(MB 500-724149/5)

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

General Chemistry

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-236611-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	150	J B	410	130	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-9 (6-8)

Lab Sample ID: 500-236611-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	52	J	79	30	ug/Kg	50	✖	8260D	Total/NA
N-Propylbenzene	55	J	79	33	ug/Kg	50	✖	8260D	Total/NA
p-Isopropyltoluene	35	J	79	28	ug/Kg	50	✖	8260D	Total/NA
sec-Butylbenzene	390		79	31	ug/Kg	50	✖	8260D	Total/NA
Toluene	17	J B	20	12	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-9 (16-18)

Lab Sample ID: 500-236611-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	150		72	24	ug/Kg	50	✖	8260D	Total/NA
Toluene	19	B	18	11	ug/Kg	50	✖	8260D	Total/NA
1,2,4-Trimethylbenzene	81		72	26	ug/Kg	50	✖	8260D	Total/NA
Xylenes, Total	20	J	36	16	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-9 (19-20)

Lab Sample ID: 500-236611-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	58	J B	67	24	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-236611-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13	J	20	12	ug/Kg	50	✖	8260D	Total/NA
Naphthalene	89		82	27	ug/Kg	50	✖	8260D	Total/NA
Toluene	48	B	20	12	ug/Kg	50	✖	8260D	Total/NA
Xylenes, Total	72		41	18	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-10 (10-12)

Lab Sample ID: 500-236611-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12	J	18	11	ug/Kg	50	✖	8260D	Total/NA
Naphthalene	170		73	24	ug/Kg	50	✖	8260D	Total/NA
n-Butylbenzene	41	J	73	28	ug/Kg	50	✖	8260D	Total/NA
Toluene	20	B	18	11	ug/Kg	50	✖	8260D	Total/NA
1,2,4-Trimethylbenzene	75		73	26	ug/Kg	50	✖	8260D	Total/NA
Xylenes, Total	19	J	37	16	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-10 (16-18)

Lab Sample ID: 500-236611-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	37	J	140	27	ug/Kg	50	✖	8260D	Total/NA
Naphthalene	100		72	24	ug/Kg	50	✖	8260D	Total/NA
Toluene	17	J B	18	11	ug/Kg	50	✖	8260D	Total/NA
1,2,4-Trimethylbenzene	65	J	72	26	ug/Kg	50	✖	8260D	Total/NA

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-236611-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	150	J B	440	140	ug/Kg	50	✖	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (10-12)

Lab Sample ID: 500-236611-9

No Detections.

Client Sample ID: GP-11 (16-18)

Lab Sample ID: 500-236611-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	130	J B	340	110	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-236611-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	32		20	12	ug/Kg	50	✳	8260D	Total/NA
Chloroform	30	J	160	29	ug/Kg	50	✳	8260D	Total/NA
Ethylbenzene	41		20	14	ug/Kg	50	✳	8260D	Total/NA
Isopropylbenzene	32	J	79	30	ug/Kg	50	✳	8260D	Total/NA
Naphthalene	210		79	26	ug/Kg	50	✳	8260D	Total/NA
n-Butylbenzene	40	J	79	31	ug/Kg	50	✳	8260D	Total/NA
N-Propylbenzene	47	J	79	33	ug/Kg	50	✳	8260D	Total/NA
p-Isopropyltoluene	32	J	79	29	ug/Kg	50	✳	8260D	Total/NA
Toluene	180	B	20	12	ug/Kg	50	✳	8260D	Total/NA
1,2,4-Trimethylbenzene	240		79	28	ug/Kg	50	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	89		79	30	ug/Kg	50	✳	8260D	Total/NA
Xylenes, Total	310		40	17	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-12 (10-12)

Lab Sample ID: 500-236611-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	49	J	160	30	ug/Kg	50	✳	8260D	Total/NA
Isopropylbenzene	53	J	81	31	ug/Kg	50	✳	8260D	Total/NA
Naphthalene	380		81	27	ug/Kg	50	✳	8260D	Total/NA
n-Butylbenzene	620		81	32	ug/Kg	50	✳	8260D	Total/NA
p-Isopropyltoluene	370		81	29	ug/Kg	50	✳	8260D	Total/NA
sec-Butylbenzene	400		81	32	ug/Kg	50	✳	8260D	Total/NA
Toluene	18	J B	20	12	ug/Kg	50	✳	8260D	Total/NA
1,2,4-Trimethylbenzene	330		81	29	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-12 (16-18)

Lab Sample ID: 500-236611-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	130	J B	360	120	ug/Kg	50	✳	8260D	Total/NA
Naphthalene	43	J B	72	24	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-236611-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	140	J B	400	130	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-13 (10-12)

Lab Sample ID: 500-236611-15

No Detections.

Client Sample ID: GP-13 (16-18)

Lab Sample ID: 500-236611-16

No Detections.

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-236611-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (10-12)

Lab Sample ID: 500-236611-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	41	J	83	32	ug/Kg	50	✳	8260D	Total/NA
Naphthalene	79	J	83	28	ug/Kg	50	✳	8260D	Total/NA
p-Isopropyltoluene	39	J	83	30	ug/Kg	50	✳	8260D	Total/NA
sec-Butylbenzene	140		83	33	ug/Kg	50	✳	8260D	Total/NA
Toluene	19	J B	21	12	ug/Kg	50	✳	8260D	Total/NA

Client Sample ID: GP-14 (16-18)

Lab Sample ID: 500-236611-19

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236611-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	12	J B	13	7.4	ug/Kg	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-236611-1	GP-9 (2-4)	Solid	07/12/23 09:40	07/14/23 09:50
500-236611-2	GP-9 (6-8)	Solid	07/12/23 09:45	07/14/23 09:50
500-236611-3	GP-9 (16-18)	Solid	07/12/23 09:50	07/14/23 09:50
500-236611-4	GP-9 (19-20)	Solid	07/12/23 09:55	07/14/23 09:50
500-236611-5	GP-10 (2-4)	Solid	07/12/23 11:15	07/14/23 09:50
500-236611-6	GP-10 (10-12)	Solid	07/12/23 11:20	07/14/23 09:50
500-236611-7	GP-10 (16-18)	Solid	07/12/23 11:25	07/14/23 09:50
500-236611-8	GP-11 (2-4)	Solid	07/12/23 10:25	07/14/23 09:50
500-236611-9	GP-11 (10-12)	Solid	07/12/23 10:30	07/14/23 09:50
500-236611-10	GP-11 (16-18)	Solid	07/12/23 10:35	07/14/23 09:50
500-236611-11	GP-12 (2-4)	Solid	07/12/23 11:55	07/14/23 09:50
500-236611-12	GP-12 (10-12)	Solid	07/12/23 12:00	07/14/23 09:50
500-236611-13	GP-12 (16-18)	Solid	07/12/23 12:05	07/14/23 09:50
500-236611-14	GP-13 (2-4)	Solid	07/12/23 08:45	07/14/23 09:50
500-236611-15	GP-13 (10-12)	Solid	07/12/23 08:50	07/14/23 09:50
500-236611-16	GP-13 (16-18)	Solid	07/12/23 08:55	07/14/23 09:50
500-236611-17	GP-14 (2-4)	Solid	07/12/23 12:55	07/14/23 09:50
500-236611-18	GP-14 (10-12)	Solid	07/12/23 13:00	07/14/23 09:50
500-236611-19	GP-14 (16-18)	Solid	07/12/23 13:05	07/14/23 09:50
500-236611-20	TRIP BLANK	Solid	07/12/23 00:00	07/14/23 09:50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-236611-1

Date Collected: 07/12/23 09:40

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 81.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Bromobenzene	<29		83	29	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Bromochloromethane	<35		83	35	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Bromodichloromethane	<31		83	31	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Bromoform	<40		83	40	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Bromomethane	<66		250	66	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Carbon tetrachloride	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Chlorobenzene	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Chloroethane	<42		83	42	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Chloroform	<31		170	31	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Chloromethane	<26		410	26	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
2-Chlorotoluene	<26		83	26	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
4-Chlorotoluene	<29		83	29	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
cis-1,2-Dichloroethene	<34		83	34	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
cis-1,3-Dichloropropene	<34		83	34	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Dibromochloromethane	<40		83	40	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2-Dibromo-3-Chloropropane	<160		410	160	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2-Dibromoethane	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Dibromomethane	<22		83	22	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2-Dichlorobenzene	<28		83	28	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,3-Dichlorobenzene	<33		83	33	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,4-Dichlorobenzene	<30		83	30	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Dichlorodifluoromethane	<56		250	56	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1-Dichloroethane	<34		83	34	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2-Dichloroethane	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1-Dichloroethene	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2-Dichloropropane	<35		83	35	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,3-Dichloropropane	<30		83	30	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
2,2-Dichloropropane	<37		83	37	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1-Dichloropropene	<25		83	25	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Ethylbenzene	<15		21	15	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Hexachlorobutadiene	<37		83	37	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Isopropylbenzene	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Isopropyl ether	<23		83	23	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Methylene Chloride	150	J B	410	130	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Methyl tert-butyl ether	<33		83	33	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Naphthalene	<28		83	28	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
n-Butylbenzene	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
N-Propylbenzene	<34		83	34	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
p-Isopropyltoluene	<30		83	30	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
sec-Butylbenzene	<33		83	33	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Styrene	<32		83	32	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
tert-Butylbenzene	<33		83	33	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1,1,2-Tetrachloroethane	<38		83	38	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1,2,2-Tetrachloroethane	<33		83	33	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Tetrachloroethene	<31		83	31	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Toluene	<12		21	12	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
trans-1,2-Dichloroethene	<29		83	29	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
trans-1,3-Dichloropropene	<30		83	30	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-236611-1

Date Collected: 07/12/23 09:40

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 81.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		83	38	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2,4-Trichlorobenzene	<28		83	28	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1,1-Trichloroethane	<31		83	31	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,1,2-Trichloroethane	<29		83	29	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Trichloroethene	<14		41	14	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Trichlorofluoromethane	<35		83	35	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2,3-Trichloropropane	<34		170	34	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,2,4-Trimethylbenzene	<30		83	30	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
1,3,5-Trimethylbenzene	<31		83	31	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Vinyl chloride	<22		83	22	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50
Xylenes, Total	<18		41	18	ug/Kg	✱	07/12/23 09:40	07/21/23 13:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		72 - 124	07/12/23 09:40	07/21/23 13:05	50
Dibromofluoromethane (Surr)	122	S1+	75 - 120	07/12/23 09:40	07/21/23 13:05	50
1,2-Dichloroethane-d4 (Surr)	128	S1+	75 - 126	07/12/23 09:40	07/21/23 13:05	50
Toluene-d8 (Surr)	98		75 - 120	07/12/23 09:40	07/21/23 13:05	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (6-8)

Lab Sample ID: 500-236611-2

Date Collected: 07/12/23 09:45

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		20	11	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Bromobenzene	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Bromochloromethane	<34		79	34	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Bromodichloromethane	<29		79	29	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Bromoform	<38		79	38	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Bromomethane	<63		240	63	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Carbon tetrachloride	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Chlorobenzene	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Chloroethane	<40		79	40	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Chloroform	<29		160	29	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Chloromethane	<25		390	25	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
2-Chlorotoluene	<25		79	25	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
4-Chlorotoluene	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
cis-1,2-Dichloroethene	<32		79	32	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
cis-1,3-Dichloropropene	<33		79	33	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Dibromochloromethane	<38		79	38	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2-Dibromo-3-Chloropropane	<160		390	160	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2-Dibromoethane	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Dibromomethane	<21		79	21	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2-Dichlorobenzene	<26		79	26	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,3-Dichlorobenzene	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,4-Dichlorobenzene	<29		79	29	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Dichlorodifluoromethane	<53		240	53	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1-Dichloroethane	<32		79	32	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2-Dichloroethane	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1-Dichloroethene	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2-Dichloropropane	<34		79	34	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,3-Dichloropropane	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
2,2-Dichloropropane	<35		79	35	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1-Dichloropropene	<23		79	23	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Ethylbenzene	<14		20	14	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Hexachlorobutadiene	<35		79	35	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Isopropylbenzene	52 J		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Isopropyl ether	<22		79	22	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Methylene Chloride	<130		390	130	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Methyl tert-butyl ether	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Naphthalene	<26		79	26	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
n-Butylbenzene	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
N-Propylbenzene	55 J		79	33	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
p-Isopropyltoluene	35 J		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
sec-Butylbenzene	390		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Styrene	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
tert-Butylbenzene	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1,1,2-Tetrachloroethane	<36		79	36	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1,2,2-Tetrachloroethane	<31		79	31	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Tetrachloroethene	<29		79	29	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Toluene	17 J B		20	12	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
trans-1,2-Dichloroethene	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
trans-1,3-Dichloropropene	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (6-8)

Lab Sample ID: 500-236611-2

Date Collected: 07/12/23 09:45

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<36		79	36	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2,4-Trichlorobenzene	<27		79	27	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1,1-Trichloroethane	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,1,2-Trichloroethane	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Trichloroethene	<13		39	13	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Trichlorofluoromethane	<34		79	34	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2,3-Trichloropropane	<33		160	33	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,2,4-Trimethylbenzene	<28		79	28	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
1,3,5-Trimethylbenzene	<30		79	30	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Vinyl chloride	<21		79	21	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50
Xylenes, Total	<17		39	17	ug/Kg	✱	07/12/23 09:45	07/25/23 22:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124	07/12/23 09:45	07/25/23 22:29	50
Dibromofluoromethane (Surr)	101		75 - 120	07/12/23 09:45	07/25/23 22:29	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126	07/12/23 09:45	07/25/23 22:29	50
Toluene-d8 (Surr)	95		75 - 120	07/12/23 09:45	07/25/23 22:29	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (16-18)

Lab Sample ID: 500-236611-3

Date Collected: 07/12/23 09:50

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Bromobenzene	<26		72	26	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Bromochloromethane	<31		72	31	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Bromodichloromethane	<27		72	27	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Bromoform	<35		72	35	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Bromomethane	<57		210	57	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Carbon tetrachloride	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Chlorobenzene	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Chloroethane	<36		72	36	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Chloroform	<27		140	27	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Chloromethane	<23		360	23	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
2-Chlorotoluene	<22		72	22	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
4-Chlorotoluene	<25		72	25	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Dibromochloromethane	<35		72	35	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,2-Dibromoethane	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Dibromomethane	<19		72	19	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Dichlorodifluoromethane	<48		210	48	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,1-Dichloroethane	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,2-Dichloroethane	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,1-Dichloroethene	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,2-Dichloropropane	<31		72	31	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,3-Dichloropropane	<26		72	26	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
2,2-Dichloropropane	<32		72	32	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,1-Dichloropropene	<21		72	21	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Ethylbenzene	<13		18	13	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Hexachlorobutadiene	<32		72	32	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Isopropylbenzene	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Isopropyl ether	<20		72	20	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Methylene Chloride	<120		360	120	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Naphthalene	150		72	24	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
n-Butylbenzene	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
N-Propylbenzene	<30		72	30	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
p-Isopropyltoluene	<26		72	26	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
sec-Butylbenzene	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Styrene	<28		72	28	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
tert-Butylbenzene	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Tetrachloroethene	<27		72	27	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
Toluene	19 B		18	11	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	✳	07/12/23 09:50	07/25/23 22:54	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (16-18)

Lab Sample ID: 500-236611-3

Date Collected: 07/12/23 09:50

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
Trichloroethene	<12		36	12	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
Trichlorofluoromethane	<31		72	31	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,2,4-Trimethylbenzene	81		72	26	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
Vinyl chloride	<19		72	19	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50
Xylenes, Total	20 J		36	16	ug/Kg	✱	07/12/23 09:50	07/25/23 22:54	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124	07/12/23 09:50	07/25/23 22:54	50
Dibromofluoromethane (Surr)	100		75 - 120	07/12/23 09:50	07/25/23 22:54	50
1,2-Dichloroethane-d4 (Surr)	105		75 - 126	07/12/23 09:50	07/25/23 22:54	50
Toluene-d8 (Surr)	96		75 - 120	07/12/23 09:50	07/25/23 22:54	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (19-20)

Lab Sample ID: 500-236611-4

Date Collected: 07/12/23 09:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7		17	9.7	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Bromobenzene	<24		67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Bromochloromethane	<29		67	29	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Bromodichloromethane	<25		67	25	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Bromoform	<32		67	32	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Bromomethane	<53		200	53	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Carbon tetrachloride	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Chlorobenzene	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Chloroethane	<34		67	34	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Chloroform	<25		130	25	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Chloromethane	<21		330	21	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
2-Chlorotoluene	<21		67	21	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
4-Chlorotoluene	<23		67	23	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Dibromochloromethane	<33		67	33	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2-Dibromoethane	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Dibromomethane	<18		67	18	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1-Dichloroethane	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2-Dichloroethane	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1-Dichloroethene	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2-Dichloropropane	<29		67	29	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,3-Dichloropropane	<24		67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
2,2-Dichloropropane	<30		67	30	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1-Dichloropropene	<20		67	20	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Ethylbenzene	<12		17	12	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Hexachlorobutadiene	<30		67	30	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Isopropylbenzene	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Isopropyl ether	<18		67	18	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Methylene Chloride	<110		330	110	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Naphthalene	<22		67	22	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
n-Butylbenzene	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
N-Propylbenzene	<28		67	28	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
p-Isopropyltoluene	<24		67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
sec-Butylbenzene	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Styrene	<26		67	26	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
tert-Butylbenzene	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Tetrachloroethene	<25		67	25	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Toluene	<9.8		17	9.8	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (19-20)

Lab Sample ID: 500-236611-4

Date Collected: 07/12/23 09:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,1,2-Trichloroethane	<23		67	23	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Trichloroethene	<11		33	11	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Trichlorofluoromethane	<29		67	29	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,2,4-Trimethylbenzene	58	J B	67	24	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Vinyl chloride	<17		67	17	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50
Xylenes, Total	<15		33	15	ug/Kg	✱	07/12/23 09:55	07/21/23 14:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		72 - 124	07/12/23 09:55	07/21/23 14:20	50
Dibromofluoromethane (Surr)	120		75 - 120	07/12/23 09:55	07/21/23 14:20	50
1,2-Dichloroethane-d4 (Surr)	124		75 - 126	07/12/23 09:55	07/21/23 14:20	50
Toluene-d8 (Surr)	101		75 - 120	07/12/23 09:55	07/21/23 14:20	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-236611-5

Date Collected: 07/12/23 11:15

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13	J	20	12	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Bromobenzene	<29		82	29	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Bromochloromethane	<35		82	35	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Bromodichloromethane	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Bromoform	<40		82	40	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Bromomethane	<65		250	65	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Carbon tetrachloride	<31		82	31	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Chlorobenzene	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Chloroethane	<41		82	41	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Chloroform	<30		160	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Chloromethane	<26		410	26	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
2-Chlorotoluene	<26		82	26	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
4-Chlorotoluene	<29		82	29	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
cis-1,2-Dichloroethene	<33		82	33	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
cis-1,3-Dichloropropene	<34		82	34	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Dibromochloromethane	<40		82	40	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2-Dibromo-3-Chloropropane	<160		410	160	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2-Dibromoethane	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Dibromomethane	<22		82	22	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2-Dichlorobenzene	<27		82	27	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,3-Dichlorobenzene	<33		82	33	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,4-Dichlorobenzene	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Dichlorodifluoromethane	<55		250	55	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1-Dichloroethane	<34		82	34	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2-Dichloroethane	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1-Dichloroethene	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2-Dichloropropane	<35		82	35	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,3-Dichloropropane	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
2,2-Dichloropropane	<36		82	36	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1-Dichloropropene	<24		82	24	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Ethylbenzene	<15		20	15	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Hexachlorobutadiene	<37		82	37	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Isopropylbenzene	<31		82	31	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Isopropyl ether	<23		82	23	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Methylene Chloride	<130		410	130	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Methyl tert-butyl ether	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Naphthalene	89		82	27	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
n-Butylbenzene	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
N-Propylbenzene	<34		82	34	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
p-Isopropyltoluene	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
sec-Butylbenzene	<33		82	33	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Styrene	<32		82	32	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
tert-Butylbenzene	<33		82	33	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1,1,2-Tetrachloroethane	<38		82	38	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1,2,2-Tetrachloroethane	<33		82	33	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Tetrachloroethene	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Toluene	48	B	20	12	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
trans-1,2-Dichloroethene	<29		82	29	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
trans-1,3-Dichloropropene	<30		82	30	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-236611-5

Date Collected: 07/12/23 11:15

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		82	38	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2,4-Trichlorobenzene	<28		82	28	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1,1-Trichloroethane	<31		82	31	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,1,2-Trichloroethane	<29		82	29	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Trichloroethene	<13		41	13	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Trichlorofluoromethane	<35		82	35	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2,3-Trichloropropane	<34		160	34	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,2,4-Trimethylbenzene	<29		82	29	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
1,3,5-Trimethylbenzene	<31		82	31	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Vinyl chloride	<21		82	21	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50
Xylenes, Total	72		41	18	ug/Kg	☼	07/12/23 11:15	07/25/23 23:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124	07/12/23 11:15	07/25/23 23:18	50
Dibromofluoromethane (Surr)	98		75 - 120	07/12/23 11:15	07/25/23 23:18	50
1,2-Dichloroethane-d4 (Surr)	105		75 - 126	07/12/23 11:15	07/25/23 23:18	50
Toluene-d8 (Surr)	94		75 - 120	07/12/23 11:15	07/25/23 23:18	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (10-12)

Lab Sample ID: 500-236611-6

Date Collected: 07/12/23 11:20

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12	J	18	11	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Bromobenzene	<26		73	26	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Bromochloromethane	<31		73	31	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Bromoform	<35		73	35	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Bromomethane	<58		220	58	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Chlorobenzene	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Chloroethane	<37		73	37	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Chloroform	<27		150	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Chloromethane	<23		370	23	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
4-Chlorotoluene	<26		73	26	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
cis-1,2-Dichloroethene	<30		73	30	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Dibromochloromethane	<36		73	36	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Dibromomethane	<20		73	20	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,4-Dichlorobenzene	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1-Dichloroethane	<30		73	30	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2-Dichloroethane	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1-Dichloroethene	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,3-Dichloropropane	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
2,2-Dichloropropane	<33		73	33	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Ethylbenzene	<13		18	13	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Hexachlorobutadiene	<33		73	33	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Isopropyl ether	<20		73	20	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Methylene Chloride	<120		370	120	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Naphthalene	170		73	24	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
n-Butylbenzene	41	J	73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
p-Isopropyltoluene	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Styrene	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Toluene	20	B	18	11	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
trans-1,2-Dichloroethene	<26		73	26	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
trans-1,3-Dichloropropene	<27		73	27	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (10-12)

Lab Sample ID: 500-236611-6

Date Collected: 07/12/23 11:20

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<34		73	34	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Trichloroethene	<12		37	12	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Trichlorofluoromethane	<31		73	31	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2,3-Trichloropropane	<30		150	30	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,2,4-Trimethylbenzene	75		73	26	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Vinyl chloride	<19		73	19	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50
Xylenes, Total	19 J		37	16	ug/Kg	☼	07/12/23 11:20	07/25/23 23:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124	07/12/23 11:20	07/25/23 23:42	50
Dibromofluoromethane (Surr)	97		75 - 120	07/12/23 11:20	07/25/23 23:42	50
1,2-Dichloroethane-d4 (Surr)	106		75 - 126	07/12/23 11:20	07/25/23 23:42	50
Toluene-d8 (Surr)	96		75 - 120	07/12/23 11:20	07/25/23 23:42	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (16-18)

Lab Sample ID: 500-236611-7

Date Collected: 07/12/23 11:25

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		18	11	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Bromobenzene	<26		72	26	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Bromochloromethane	<31		72	31	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Bromodichloromethane	<27		72	27	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Bromoform	<35		72	35	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Bromomethane	<57		220	57	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Carbon tetrachloride	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Chlorobenzene	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Chloroethane	<36		72	36	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Chloroform	37	J	140	27	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Chloromethane	<23		360	23	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
2-Chlorotoluene	<23		72	23	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
4-Chlorotoluene	<25		72	25	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Dibromochloromethane	<35		72	35	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,2-Dibromoethane	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Dibromomethane	<19		72	19	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,1-Dichloroethane	<30		72	30	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,2-Dichloroethane	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,1-Dichloroethene	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,2-Dichloropropane	<31		72	31	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,3-Dichloropropane	<26		72	26	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
2,2-Dichloropropane	<32		72	32	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,1-Dichloropropene	<21		72	21	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Ethylbenzene	<13		18	13	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Hexachlorobutadiene	<32		72	32	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Isopropylbenzene	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Isopropyl ether	<20		72	20	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Methylene Chloride	<120		360	120	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Naphthalene	100		72	24	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
n-Butylbenzene	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
N-Propylbenzene	<30		72	30	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
p-Isopropyltoluene	<26		72	26	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
sec-Butylbenzene	<29		72	29	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Styrene	<28		72	28	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
tert-Butylbenzene	<29		72	29	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Tetrachloroethene	<27		72	27	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
Toluene	17	J B	18	11	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	✱	07/12/23 11:25	07/26/23 00:07	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (16-18)

Lab Sample ID: 500-236611-7

Date Collected: 07/12/23 11:25

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
Trichloroethene	<12		36	12	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
Trichlorofluoromethane	<31		72	31	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,2,4-Trimethylbenzene	65 J		72	26	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
Vinyl chloride	<19		72	19	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50
Xylenes, Total	<16		36	16	ug/Kg	☼	07/12/23 11:25	07/26/23 00:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124	07/12/23 11:25	07/26/23 00:07	50
Dibromofluoromethane (Surr)	98		75 - 120	07/12/23 11:25	07/26/23 00:07	50
1,2-Dichloroethane-d4 (Surr)	106		75 - 126	07/12/23 11:25	07/26/23 00:07	50
Toluene-d8 (Surr)	93		75 - 120	07/12/23 11:25	07/26/23 00:07	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-236611-8

Date Collected: 07/12/23 10:25

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Bromobenzene	<31		88	31	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Bromochloromethane	<38		88	38	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Bromodichloromethane	<33		88	33	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Bromoform	<43		88	43	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Bromomethane	<70		270	70	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Carbon tetrachloride	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Chlorobenzene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Chloroethane	<45		88	45	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Chloroform	<33		180	33	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Chloromethane	<28		440	28	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
2-Chlorotoluene	<28		88	28	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
4-Chlorotoluene	<31		88	31	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
cis-1,2-Dichloroethene	<36		88	36	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
cis-1,3-Dichloropropene	<37		88	37	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Dibromochloromethane	<43		88	43	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2-Dibromo-3-Chloropropane	<180		440	180	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2-Dibromoethane	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Dibromomethane	<24		88	24	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2-Dichlorobenzene	<30		88	30	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,3-Dichlorobenzene	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,4-Dichlorobenzene	<32		88	32	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Dichlorodifluoromethane	<60		270	60	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1-Dichloroethane	<36		88	36	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2-Dichloroethane	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1-Dichloroethene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2-Dichloropropane	<38		88	38	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,3-Dichloropropane	<32		88	32	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
2,2-Dichloropropane	<39		88	39	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1-Dichloropropene	<26		88	26	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Ethylbenzene	<16		22	16	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Hexachlorobutadiene	<39		88	39	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Isopropylbenzene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Isopropyl ether	<24		88	24	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Methylene Chloride	150	J B	440	140	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Methyl tert-butyl ether	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Naphthalene	<30		88	30	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
n-Butylbenzene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
N-Propylbenzene	<37		88	37	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
p-Isopropyltoluene	<32		88	32	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
sec-Butylbenzene	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Styrene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
tert-Butylbenzene	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1,1,2-Tetrachloroethane	<41		88	41	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1,2,2-Tetrachloroethane	<35		88	35	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Tetrachloroethene	<33		88	33	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Toluene	<13		22	13	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
trans-1,2-Dichloroethene	<31		88	31	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
trans-1,3-Dichloropropene	<32		88	32	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-236611-8

Date Collected: 07/12/23 10:25

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<40		88	40	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2,4-Trichlorobenzene	<30		88	30	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1,1-Trichloroethane	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,1,2-Trichloroethane	<31		88	31	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Trichloroethene	<14		44	14	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Trichlorofluoromethane	<38		88	38	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,2,4-Trimethylbenzene	<32		88	32	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
1,3,5-Trimethylbenzene	<34		88	34	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Vinyl chloride	<23		88	23	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50
Xylenes, Total	<19		44	19	ug/Kg	✱	07/12/23 10:25	07/21/23 15:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		72 - 124	07/12/23 10:25	07/21/23 15:59	50
Dibromofluoromethane (Surr)	117		75 - 120	07/12/23 10:25	07/21/23 15:59	50
1,2-Dichloroethane-d4 (Surr)	121		75 - 126	07/12/23 10:25	07/21/23 15:59	50
Toluene-d8 (Surr)	96		75 - 120	07/12/23 10:25	07/21/23 15:59	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (10-12)

Lab Sample ID: 500-236611-9

Date Collected: 07/12/23 10:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.8		17	9.8	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Bromobenzene	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Bromochloromethane	<29		67	29	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Bromodichloromethane	<25		67	25	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Bromoform	<32		67	32	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Bromomethane	<53		200	53	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Carbon tetrachloride	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Chlorobenzene	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Chloroethane	<34		67	34	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Chloroform	<25		130	25	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Chloromethane	<21		330	21	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
2-Chlorotoluene	<21		67	21	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
4-Chlorotoluene	<23		67	23	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Dibromochloromethane	<33		67	33	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2-Dibromoethane	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Dibromomethane	<18		67	18	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1-Dichloroethane	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2-Dichloroethane	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1-Dichloroethene	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2-Dichloropropane	<29		67	29	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,3-Dichloropropane	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
2,2-Dichloropropane	<30		67	30	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1-Dichloropropene	<20		67	20	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Ethylbenzene	<12		17	12	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Hexachlorobutadiene	<30		67	30	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Isopropylbenzene	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Isopropyl ether	<18		67	18	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Methylene Chloride	<110		330	110	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Naphthalene	<22		67	22	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
n-Butylbenzene	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
N-Propylbenzene	<28		67	28	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
p-Isopropyltoluene	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
sec-Butylbenzene	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Styrene	<26		67	26	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
tert-Butylbenzene	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Tetrachloroethene	<25		67	25	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Toluene	<9.8		17	9.8	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (10-12)

Lab Sample ID: 500-236611-9

Date Collected: 07/12/23 10:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Trichloroethene	<11		33	11	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Trichlorofluoromethane	<29		67	29	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Vinyl chloride	<18		67	18	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50
Xylenes, Total	<15		33	15	ug/Kg	✱	07/12/23 10:30	07/21/23 16:24	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		72 - 124	07/12/23 10:30	07/21/23 16:24	50
Dibromofluoromethane (Surr)	124	S1+	75 - 120	07/12/23 10:30	07/21/23 16:24	50
1,2-Dichloroethane-d4 (Surr)	120		75 - 126	07/12/23 10:30	07/21/23 16:24	50
Toluene-d8 (Surr)	96		75 - 120	07/12/23 10:30	07/21/23 16:24	50

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (16-18)

Lab Sample ID: 500-236611-10

Date Collected: 07/12/23 10:35

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		17	10	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Bromobenzene	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Bromochloromethane	<29		69	29	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Bromodichloromethane	<26		69	26	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Bromoform	<33		69	33	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Bromomethane	<55		210	55	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Carbon tetrachloride	<26		69	26	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Chlorobenzene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Chloroethane	<35		69	35	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Chloroform	<25		140	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Chloromethane	<22		340	22	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
2-Chlorotoluene	<22		69	22	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
4-Chlorotoluene	<24		69	24	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Dibromochloromethane	<34		69	34	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,2-Dibromoethane	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Dibromomethane	<19		69	19	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,1-Dichloroethane	<28		69	28	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,2-Dichloroethane	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,1-Dichloroethene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,2-Dichloropropane	<29		69	29	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,3-Dichloropropane	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
2,2-Dichloropropane	<31		69	31	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,1-Dichloropropene	<21		69	21	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Ethylbenzene	<13		17	13	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Hexachlorobutadiene	<31		69	31	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Isopropylbenzene	<26		69	26	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Isopropyl ether	<19		69	19	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Methylene Chloride	130	J B	340	110	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Naphthalene	<23		69	23	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
n-Butylbenzene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
N-Propylbenzene	<29		69	29	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
p-Isopropyltoluene	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
sec-Butylbenzene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Styrene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
tert-Butylbenzene	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Tetrachloroethene	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
Toluene	<10		17	10	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	✱	07/12/23 10:35	07/21/23 16:49	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (16-18)

Lab Sample ID: 500-236611-10

Date Collected: 07/12/23 10:35

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 90.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
Trichloroethene	<11		34	11	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
Trichlorofluoromethane	<29		69	29	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
Vinyl chloride	<18		69	18	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50
Xylenes, Total	<15		34	15	ug/Kg	☼	07/12/23 10:35	07/21/23 16:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		72 - 124	07/12/23 10:35	07/21/23 16:49	50
Dibromofluoromethane (Surr)	122	S1+	75 - 120	07/12/23 10:35	07/21/23 16:49	50
1,2-Dichloroethane-d4 (Surr)	130	S1+	75 - 126	07/12/23 10:35	07/21/23 16:49	50
Toluene-d8 (Surr)	98		75 - 120	07/12/23 10:35	07/21/23 16:49	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-236611-11

Date Collected: 07/12/23 11:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	32		20	12	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Bromobenzene	<28		79	28	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Bromochloromethane	<34		79	34	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Bromodichloromethane	<29		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Bromoform	<38		79	38	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Bromomethane	<63		240	63	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Carbon tetrachloride	<30		79	30	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Chlorobenzene	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Chloroethane	<40		79	40	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Chloroform	30 J		160	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Chloromethane	<25		400	25	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
2-Chlorotoluene	<25		79	25	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
4-Chlorotoluene	<28		79	28	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
cis-1,2-Dichloroethene	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
cis-1,3-Dichloropropene	<33		79	33	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Dibromochloromethane	<39		79	39	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2-Dibromo-3-Chloropropane	<160		400	160	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2-Dibromoethane	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Dibromomethane	<21		79	21	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2-Dichlorobenzene	<26		79	26	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,3-Dichlorobenzene	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,4-Dichlorobenzene	<29		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Dichlorodifluoromethane	<53		240	53	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1-Dichloroethane	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2-Dichloroethane	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1-Dichloroethene	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2-Dichloropropane	<34		79	34	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,3-Dichloropropane	<29		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
2,2-Dichloropropane	<35		79	35	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1-Dichloropropene	<24		79	24	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Ethylbenzene	41		20	14	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Hexachlorobutadiene	<35		79	35	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Isopropylbenzene	32 J		79	30	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Isopropyl ether	<22		79	22	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Methylene Chloride	<130		400	130	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Methyl tert-butyl ether	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Naphthalene	210		79	26	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
n-Butylbenzene	40 J		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
N-Propylbenzene	47 J		79	33	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
p-Isopropyltoluene	32 J		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
sec-Butylbenzene	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Styrene	<31		79	31	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
tert-Butylbenzene	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1,1,2-Tetrachloroethane	<37		79	37	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1,1,2,2-Tetrachloroethane	<32		79	32	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Tetrachloroethene	<29		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Toluene	180 B		20	12	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
trans-1,2-Dichloroethene	<28		79	28	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
trans-1,3-Dichloropropene	<29		79	29	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-236611-11

Date Collected: 07/12/23 11:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<36		79	36	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2,4-Trichlorobenzene	<27		79	27	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1,1-Trichloroethane	<30		79	30	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,1,2-Trichloroethane	<28		79	28	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Trichloroethene	<13		40	13	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Trichlorofluoromethane	<34		79	34	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2,3-Trichloropropane	<33		160	33	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,2,4-Trimethylbenzene	240		79	28	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
1,3,5-Trimethylbenzene	89		79	30	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Vinyl chloride	<21		79	21	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50
Xylenes, Total	310		40	17	ug/Kg	☼	07/12/23 11:55	07/26/23 00:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124	07/12/23 11:55	07/26/23 00:31	50
Dibromofluoromethane (Surr)	98		75 - 120	07/12/23 11:55	07/26/23 00:31	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126	07/12/23 11:55	07/26/23 00:31	50
Toluene-d8 (Surr)	93		75 - 120	07/12/23 11:55	07/26/23 00:31	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (10-12)

Lab Sample ID: 500-236611-12

Date Collected: 07/12/23 12:00

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Bromobenzene	<29		81	29	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Bromochloromethane	<35		81	35	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Bromodichloromethane	<30		81	30	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Bromoform	<39		81	39	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Bromomethane	<65		240	65	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Carbon tetrachloride	<31		81	31	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Chlorobenzene	<31		81	31	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Chloroethane	<41		81	41	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Chloroform	49	J	160	30	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Chloromethane	<26		410	26	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
2-Chlorotoluene	<26		81	26	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
4-Chlorotoluene	<28		81	28	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
cis-1,2-Dichloroethene	<33		81	33	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
cis-1,3-Dichloropropene	<34		81	34	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Dibromochloromethane	<40		81	40	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,2-Dibromo-3-Chloropropane	<160		410	160	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,2-Dibromoethane	<31		81	31	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Dibromomethane	<22		81	22	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,2-Dichlorobenzene	<27		81	27	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,3-Dichlorobenzene	<33		81	33	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,4-Dichlorobenzene	<30		81	30	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Dichlorodifluoromethane	<55		240	55	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,1-Dichloroethane	<33		81	33	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,2-Dichloroethane	<32		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,1-Dichloroethene	<32		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,2-Dichloropropane	<35		81	35	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,3-Dichloropropane	<29		81	29	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
2,2-Dichloropropane	<36		81	36	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,1-Dichloropropene	<24		81	24	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Ethylbenzene	<15		20	15	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Hexachlorobutadiene	<36		81	36	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Isopropylbenzene	53	J	81	31	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Isopropyl ether	<22		81	22	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Methylene Chloride	<130		410	130	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Methyl tert-butyl ether	<32		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Naphthalene	380		81	27	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
n-Butylbenzene	620		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
N-Propylbenzene	<34		81	34	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
p-Isopropyltoluene	370		81	29	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
sec-Butylbenzene	400		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Styrene	<31		81	31	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
tert-Butylbenzene	<32		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,1,1,2-Tetrachloroethane	<38		81	38	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
1,1,1,2,2-Tetrachloroethane	<32		81	32	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Tetrachloroethene	<30		81	30	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
Toluene	18	J B	20	12	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
trans-1,2-Dichloroethene	<28		81	28	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50
trans-1,3-Dichloropropene	<29		81	29	ug/Kg	✱	07/12/23 12:00	07/26/23 00:55	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (10-12)

Lab Sample ID: 500-236611-12

Date Collected: 07/12/23 12:00

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<37		81	37	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,2,4-Trichlorobenzene	<28		81	28	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,1,1-Trichloroethane	<31		81	31	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,1,2-Trichloroethane	<29		81	29	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
Trichloroethene	<13		41	13	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
Trichlorofluoromethane	<35		81	35	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,2,3-Trichloropropane	<34		160	34	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,2,4-Trimethylbenzene	330		81	29	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
1,3,5-Trimethylbenzene	<31		81	31	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
Vinyl chloride	<21		81	21	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50
Xylenes, Total	<18		41	18	ug/Kg	☼	07/12/23 12:00	07/26/23 00:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	07/12/23 12:00	07/26/23 00:55	50
Dibromofluoromethane (Surr)	97		75 - 120	07/12/23 12:00	07/26/23 00:55	50
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	07/12/23 12:00	07/26/23 00:55	50
Toluene-d8 (Surr)	94		75 - 120	07/12/23 12:00	07/26/23 00:55	50

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (16-18)

Lab Sample ID: 500-236611-13

Date Collected: 07/12/23 12:05

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Bromobenzene	<26		72	26	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Bromochloromethane	<31		72	31	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Bromodichloromethane	<27		72	27	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Bromoform	<35		72	35	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Bromomethane	<57		220	57	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Carbon tetrachloride	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Chlorobenzene	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Chloroethane	<36		72	36	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Chloroform	<27		140	27	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Chloromethane	<23		360	23	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
2-Chlorotoluene	<23		72	23	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
4-Chlorotoluene	<25		72	25	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Dibromochloromethane	<35		72	35	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,2-Dibromoethane	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Dibromomethane	<19		72	19	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Dichlorodifluoromethane	<48		220	48	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,1-Dichloroethane	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,2-Dichloroethane	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,1-Dichloroethene	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,2-Dichloropropane	<31		72	31	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,3-Dichloropropane	<26		72	26	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
2,2-Dichloropropane	<32		72	32	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,1-Dichloropropene	<21		72	21	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Ethylbenzene	<13		18	13	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Hexachlorobutadiene	<32		72	32	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Isopropylbenzene	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Isopropyl ether	<20		72	20	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Methylene Chloride	130	J B	360	120	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Naphthalene	43	J B	72	24	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
n-Butylbenzene	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
N-Propylbenzene	<30		72	30	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
p-Isopropyltoluene	<26		72	26	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
sec-Butylbenzene	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Styrene	<28		72	28	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
tert-Butylbenzene	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Tetrachloroethene	<27		72	27	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
Toluene	<11		18	11	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	✱	07/12/23 12:05	07/21/23 18:04	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (16-18)

Lab Sample ID: 500-236611-13

Date Collected: 07/12/23 12:05

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
Trichloroethene	<12		36	12	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
Trichlorofluoromethane	<31		72	31	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
Vinyl chloride	<19		72	19	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50
Xylenes, Total	<16		36	16	ug/Kg	☼	07/12/23 12:05	07/21/23 18:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124	07/12/23 12:05	07/21/23 18:04	50
Dibromofluoromethane (Surr)	117		75 - 120	07/12/23 12:05	07/21/23 18:04	50
1,2-Dichloroethane-d4 (Surr)	124		75 - 126	07/12/23 12:05	07/21/23 18:04	50
Toluene-d8 (Surr)	99		75 - 120	07/12/23 12:05	07/21/23 18:04	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-236611-14

Date Collected: 07/12/23 08:45

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Bromobenzene	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Bromochloromethane	<35		81	35	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Bromodichloromethane	<30		81	30	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Bromoform	<39		81	39	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Bromomethane	<64		240	64	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Carbon tetrachloride	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Chlorobenzene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Chloroethane	<41		81	41	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Chloroform	<30		160	30	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Chloromethane	<26		400	26	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
2-Chlorotoluene	<25		81	25	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
4-Chlorotoluene	<28		81	28	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
cis-1,2-Dichloroethene	<33		81	33	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
cis-1,3-Dichloropropene	<34		81	34	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Dibromochloromethane	<39		81	39	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2-Dibromo-3-Chloropropane	<160		400	160	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2-Dibromoethane	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Dibromomethane	<22		81	22	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2-Dichlorobenzene	<27		81	27	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,3-Dichlorobenzene	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,4-Dichlorobenzene	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Dichlorodifluoromethane	<54		240	54	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1-Dichloroethane	<33		81	33	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2-Dichloroethane	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1-Dichloroethene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2-Dichloropropane	<35		81	35	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,3-Dichloropropane	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
2,2-Dichloropropane	<36		81	36	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1-Dichloropropene	<24		81	24	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Ethylbenzene	<15		20	15	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Hexachlorobutadiene	<36		81	36	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Isopropylbenzene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Isopropyl ether	<22		81	22	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Methylene Chloride	140	J B	400	130	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Methyl tert-butyl ether	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Naphthalene	<27		81	27	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
n-Butylbenzene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
N-Propylbenzene	<33		81	33	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
p-Isopropyltoluene	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
sec-Butylbenzene	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Styrene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
tert-Butylbenzene	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1,1,2-Tetrachloroethane	<37		81	37	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1,2,2-Tetrachloroethane	<32		81	32	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Tetrachloroethene	<30		81	30	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Toluene	<12		20	12	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
trans-1,2-Dichloroethene	<28		81	28	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
trans-1,3-Dichloropropene	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-236611-14

Date Collected: 07/12/23 08:45

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<37		81	37	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2,4-Trichlorobenzene	<28		81	28	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1,1-Trichloroethane	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,1,2-Trichloroethane	<28		81	28	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Trichloroethene	<13		40	13	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Trichlorofluoromethane	<35		81	35	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2,3-Trichloropropane	<33		160	33	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,2,4-Trimethylbenzene	<29		81	29	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
1,3,5-Trimethylbenzene	<31		81	31	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Vinyl chloride	<21		81	21	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50
Xylenes, Total	<18		40	18	ug/Kg	✱	07/12/23 08:45	07/21/23 18:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		72 - 124	07/12/23 08:45	07/21/23 18:29	50
Dibromofluoromethane (Surr)	114		75 - 120	07/12/23 08:45	07/21/23 18:29	50
1,2-Dichloroethane-d4 (Surr)	116		75 - 126	07/12/23 08:45	07/21/23 18:29	50
Toluene-d8 (Surr)	100		75 - 120	07/12/23 08:45	07/21/23 18:29	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (10-12)

Lab Sample ID: 500-236611-15

Date Collected: 07/12/23 08:50

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.3		16	9.3	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Bromobenzene	<23		64	23	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Bromochloromethane	<27		64	27	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Bromodichloromethane	<24		64	24	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Bromoform	<31		64	31	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Bromomethane	<51		190	51	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Carbon tetrachloride	<24		64	24	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Chlorobenzene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Chloroethane	<32		64	32	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Chloroform	<24		130	24	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Chloromethane	<20		320	20	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
2-Chlorotoluene	<20		64	20	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
4-Chlorotoluene	<22		64	22	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Dibromochloromethane	<31		64	31	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,2-Dibromoethane	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Dibromomethane	<17		64	17	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,3-Dichlorobenzene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,1-Dichloroethane	<26		64	26	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,2-Dichloroethane	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,1-Dichloroethene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,2-Dichloropropane	<27		64	27	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,3-Dichloropropane	<23		64	23	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
2,2-Dichloropropane	<28		64	28	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,1-Dichloropropene	<19		64	19	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Ethylbenzene	<12		16	12	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Hexachlorobutadiene	<28		64	28	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Isopropylbenzene	<24		64	24	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Isopropyl ether	<18		64	18	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Methylene Chloride	<100		320	100	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Naphthalene	<21		64	21	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
n-Butylbenzene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
N-Propylbenzene	<26		64	26	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
p-Isopropyltoluene	<23		64	23	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
sec-Butylbenzene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Styrene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
tert-Butylbenzene	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,1,1,2-Tetrachloroethane	<29		64	29	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Tetrachloroethene	<24		64	24	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
Toluene	<9.4		16	9.4	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	✳	07/12/23 08:50	07/21/23 18:53	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (10-12)

Lab Sample ID: 500-236611-15

Date Collected: 07/12/23 08:50

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
Trichloroethene	<10		32	10	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
Trichlorofluoromethane	<27		64	27	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
Vinyl chloride	<17		64	17	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50
Xylenes, Total	<14		32	14	ug/Kg	☼	07/12/23 08:50	07/21/23 18:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124	07/12/23 08:50	07/21/23 18:53	50
Dibromofluoromethane (Surr)	115		75 - 120	07/12/23 08:50	07/21/23 18:53	50
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	07/12/23 08:50	07/21/23 18:53	50
Toluene-d8 (Surr)	98		75 - 120	07/12/23 08:50	07/21/23 18:53	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (16-18)

Lab Sample ID: 500-236611-16

Date Collected: 07/12/23 08:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Bromobenzene	<30		84	30	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Bromochloromethane	<36		84	36	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Bromodichloromethane	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Bromoform	<41		84	41	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Bromomethane	<67		250	67	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Carbon tetrachloride	<32		84	32	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Chlorobenzene	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Chloroethane	<43		84	43	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Chloroform	<31		170	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Chloromethane	<27		420	27	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
2-Chlorotoluene	<27		84	27	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
4-Chlorotoluene	<30		84	30	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
cis-1,2-Dichloroethene	<34		84	34	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
cis-1,3-Dichloropropene	<35		84	35	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Dibromochloromethane	<41		84	41	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,2-Dibromo-3-Chloropropane	<170		420	170	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,2-Dibromoethane	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Dibromomethane	<23		84	23	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,2-Dichlorobenzene	<28		84	28	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,3-Dichlorobenzene	<34		84	34	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,4-Dichlorobenzene	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Dichlorodifluoromethane	<57		250	57	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,1-Dichloroethane	<35		84	35	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,2-Dichloroethane	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,1-Dichloroethene	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,2-Dichloropropane	<36		84	36	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,3-Dichloropropane	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
2,2-Dichloropropane	<38		84	38	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,1-Dichloropropene	<25		84	25	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Ethylbenzene	<15		21	15	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Hexachlorobutadiene	<38		84	38	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Isopropylbenzene	<32		84	32	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Isopropyl ether	<23		84	23	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Methylene Chloride	<140		420	140	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Methyl tert-butyl ether	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Naphthalene	<28		84	28	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
n-Butylbenzene	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
N-Propylbenzene	<35		84	35	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
p-Isopropyltoluene	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
sec-Butylbenzene	<34		84	34	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Styrene	<33		84	33	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
tert-Butylbenzene	<34		84	34	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,1,1,2-Tetrachloroethane	<39		84	39	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
1,1,2,2-Tetrachloroethane	<34		84	34	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Tetrachloroethene	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
Toluene	<12		21	12	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
trans-1,2-Dichloroethene	<30		84	30	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50
trans-1,3-Dichloropropene	<31		84	31	ug/Kg	✱	07/12/23 08:55	07/21/23 19:18	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (16-18)

Lab Sample ID: 500-236611-16

Date Collected: 07/12/23 08:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<39		84	39	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,2,4-Trichlorobenzene	<29		84	29	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,1,1-Trichloroethane	<32		84	32	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,1,2-Trichloroethane	<30		84	30	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
Trichloroethene	<14		42	14	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
Trichlorofluoromethane	<36		84	36	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,2,3-Trichloropropane	<35		170	35	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,2,4-Trimethylbenzene	<30		84	30	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
1,3,5-Trimethylbenzene	<32		84	32	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
Vinyl chloride	<22		84	22	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50
Xylenes, Total	<19		42	19	ug/Kg	☼	07/12/23 08:55	07/21/23 19:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		72 - 124	07/12/23 08:55	07/21/23 19:18	50
Dibromofluoromethane (Surr)	122	S1+	75 - 120	07/12/23 08:55	07/21/23 19:18	50
1,2-Dichloroethane-d4 (Surr)	122		75 - 126	07/12/23 08:55	07/21/23 19:18	50
Toluene-d8 (Surr)	100		75 - 120	07/12/23 08:55	07/21/23 19:18	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-236611-17

Date Collected: 07/12/23 12:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Bromobenzene	<26		72	26	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Bromochloromethane	<31		72	31	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Bromodichloromethane	<27		72	27	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Bromoform	<35		72	35	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Bromomethane	<57		220	57	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Carbon tetrachloride	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Chlorobenzene	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Chloroethane	<36		72	36	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Chloroform	<27		140	27	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Chloromethane	<23		360	23	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
2-Chlorotoluene	<23		72	23	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
4-Chlorotoluene	<25		72	25	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Dibromochloromethane	<35		72	35	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,2-Dibromoethane	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Dibromomethane	<19		72	19	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Dichlorodifluoromethane	<48		220	48	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,1-Dichloroethane	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,2-Dichloroethane	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,1-Dichloroethene	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,2-Dichloropropane	<31		72	31	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,3-Dichloropropane	<26		72	26	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
2,2-Dichloropropane	<32		72	32	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,1-Dichloropropene	<21		72	21	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Ethylbenzene	<13		18	13	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Hexachlorobutadiene	<32		72	32	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Isopropylbenzene	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Isopropyl ether	<20		72	20	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Methylene Chloride	<120		360	120	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Naphthalene	<24		72	24	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
n-Butylbenzene	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
N-Propylbenzene	<30		72	30	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
p-Isopropyltoluene	<26		72	26	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
sec-Butylbenzene	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Styrene	<28		72	28	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
tert-Butylbenzene	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Tetrachloroethene	<27		72	27	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
Toluene	<11		18	11	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	✳	07/12/23 12:55	07/21/23 19:43	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-236611-17

Date Collected: 07/12/23 12:55

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
Trichloroethene	<12		36	12	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
Trichlorofluoromethane	<31		72	31	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
Vinyl chloride	<19		72	19	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50
Xylenes, Total	<16		36	16	ug/Kg	✱	07/12/23 12:55	07/21/23 19:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		72 - 124	07/12/23 12:55	07/21/23 19:43	50
Dibromofluoromethane (Surr)	127	S1+	75 - 120	07/12/23 12:55	07/21/23 19:43	50
1,2-Dichloroethane-d4 (Surr)	127	S1+	75 - 126	07/12/23 12:55	07/21/23 19:43	50
Toluene-d8 (Surr)	97		75 - 120	07/12/23 12:55	07/21/23 19:43	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (10-12)

Lab Sample ID: 500-236611-18

Date Collected: 07/12/23 13:00

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		21	12	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Bromobenzene	<30		83	30	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Bromochloromethane	<36		83	36	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Bromodichloromethane	<31		83	31	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Bromoform	<40		83	40	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Bromomethane	<66		250	66	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Carbon tetrachloride	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Chlorobenzene	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Chloroethane	<42		83	42	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Chloroform	<31		170	31	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Chloromethane	<27		420	27	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
2-Chlorotoluene	<26		83	26	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
4-Chlorotoluene	<29		83	29	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
cis-1,2-Dichloroethene	<34		83	34	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
cis-1,3-Dichloropropene	<35		83	35	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Dibromochloromethane	<41		83	41	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,2-Dibromo-3-Chloropropane	<170		420	170	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,2-Dibromoethane	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Dibromomethane	<22		83	22	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,2-Dichlorobenzene	<28		83	28	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,3-Dichlorobenzene	<33		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,4-Dichlorobenzene	<30		83	30	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Dichlorodifluoromethane	<56		250	56	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,1-Dichloroethane	<34		83	34	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,2-Dichloroethane	<33		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,1-Dichloroethene	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,2-Dichloropropane	<36		83	36	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,3-Dichloropropane	<30		83	30	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
2,2-Dichloropropane	<37		83	37	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,1-Dichloropropene	<25		83	25	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Ethylbenzene	<15		21	15	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Hexachlorobutadiene	<37		83	37	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Isopropylbenzene	41 J		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Isopropyl ether	<23		83	23	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Methylene Chloride	<140		420	140	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Methyl tert-butyl ether	<33		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Naphthalene	79 J		83	28	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
n-Butylbenzene	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
N-Propylbenzene	<34		83	34	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
p-Isopropyltoluene	39 J		83	30	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
sec-Butylbenzene	140		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Styrene	<32		83	32	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
tert-Butylbenzene	<33		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,1,1,2-Tetrachloroethane	<38		83	38	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
1,1,2,2-Tetrachloroethane	<33		83	33	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Tetrachloroethene	<31		83	31	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
Toluene	19 J B		21	12	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
trans-1,2-Dichloroethene	<29		83	29	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50
trans-1,3-Dichloropropene	<30		83	30	ug/Kg	✳	07/12/23 13:00	07/26/23 01:19	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (10-12)

Lab Sample ID: 500-236611-18

Date Collected: 07/12/23 13:00

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		83	38	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,2,4-Trichlorobenzene	<28		83	28	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,1,1-Trichloroethane	<32		83	32	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,1,2-Trichloroethane	<29		83	29	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
Trichloroethene	<14		42	14	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
Trichlorofluoromethane	<36		83	36	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,2,3-Trichloropropane	<34		170	34	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,2,4-Trimethylbenzene	<30		83	30	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
1,3,5-Trimethylbenzene	<32		83	32	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
Vinyl chloride	<22		83	22	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50
Xylenes, Total	<18		42	18	ug/Kg	✱	07/12/23 13:00	07/26/23 01:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124	07/12/23 13:00	07/26/23 01:19	50
Dibromofluoromethane (Surr)	99		75 - 120	07/12/23 13:00	07/26/23 01:19	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126	07/12/23 13:00	07/26/23 01:19	50
Toluene-d8 (Surr)	94		75 - 120	07/12/23 13:00	07/26/23 01:19	50

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (16-18)

Lab Sample ID: 500-236611-19

Date Collected: 07/12/23 13:05

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Bromobenzene	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Bromochloromethane	<35		81	35	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Bromodichloromethane	<30		81	30	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Bromoform	<39		81	39	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Bromomethane	<64		240	64	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Carbon tetrachloride	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Chlorobenzene	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Chloroethane	<41		81	41	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Chloroform	<30		160	30	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Chloromethane	<26		400	26	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
2-Chlorotoluene	<25		81	25	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
4-Chlorotoluene	<28		81	28	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
cis-1,2-Dichloroethene	<33		81	33	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
cis-1,3-Dichloropropene	<34		81	34	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Dibromochloromethane	<39		81	39	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2-Dibromo-3-Chloropropane	<160		400	160	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2-Dibromoethane	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Dibromomethane	<22		81	22	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2-Dichlorobenzene	<27		81	27	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,3-Dichlorobenzene	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,4-Dichlorobenzene	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Dichlorodifluoromethane	<55		240	55	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1-Dichloroethane	<33		81	33	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2-Dichloroethane	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1-Dichloroethene	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2-Dichloropropane	<35		81	35	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,3-Dichloropropane	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
2,2-Dichloropropane	<36		81	36	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1-Dichloropropene	<24		81	24	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Ethylbenzene	<15		20	15	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Hexachlorobutadiene	<36		81	36	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Isopropylbenzene	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Isopropyl ether	<22		81	22	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Methylene Chloride	<130		400	130	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Methyl tert-butyl ether	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Naphthalene	<27		81	27	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
n-Butylbenzene	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
N-Propylbenzene	<34		81	34	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
p-Isopropyltoluene	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
sec-Butylbenzene	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Styrene	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
tert-Butylbenzene	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1,1,2-Tetrachloroethane	<37		81	37	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1,1,2,2-Tetrachloroethane	<32		81	32	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Tetrachloroethene	<30		81	30	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Toluene	<12		20	12	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
trans-1,2-Dichloroethene	<28		81	28	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
trans-1,3-Dichloropropene	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50

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Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (16-18)

Lab Sample ID: 500-236611-19

Date Collected: 07/12/23 13:05

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<37		81	37	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2,4-Trichlorobenzene	<28		81	28	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1,1-Trichloroethane	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,1,2-Trichloroethane	<28		81	28	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Trichloroethene	<13		40	13	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Trichlorofluoromethane	<35		81	35	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2,3-Trichloropropane	<34		160	34	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,2,4-Trimethylbenzene	<29		81	29	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
1,3,5-Trimethylbenzene	<31		81	31	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Vinyl chloride	<21		81	21	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50
Xylenes, Total	<18		40	18	ug/Kg	✱	07/12/23 13:05	07/21/23 20:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		72 - 124	07/12/23 13:05	07/21/23 20:33	50
Dibromofluoromethane (Surr)	121	S1+	75 - 120	07/12/23 13:05	07/21/23 20:33	50
1,2-Dichloroethane-d4 (Surr)	127	S1+	75 - 126	07/12/23 13:05	07/21/23 20:33	50
Toluene-d8 (Surr)	100		75 - 120	07/12/23 13:05	07/21/23 20:33	50

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236611-20

Date Collected: 07/12/23 00:00

Matrix: Solid

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Bromobenzene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Bromochloromethane	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Bromodichloromethane	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Bromoform	<24		50	24	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Bromomethane	<40		150	40	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Chlorobenzene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Chloroethane	<25		50	25	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Chloroform	<19		100	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Chloromethane	<16		250	16	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Dibromochloromethane	<24		50	24	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Dibromomethane	<14		50	14	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Isopropylbenzene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Isopropyl ether	<14		50	14	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Methylene Chloride	<82		250	82	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Naphthalene	<17		50	17	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
n-Butylbenzene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
N-Propylbenzene	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Styrene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Tetrachloroethene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Toluene	12	J B	13	7.4	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-236611-20

Date Collected: 07/12/23 00:00

Matrix: Solid

Date Received: 07/14/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Vinyl chloride	<13		50	13	ug/Kg		07/12/23 00:00	07/25/23 21:41	50
Xylenes, Total	<11		25	11	ug/Kg		07/12/23 00:00	07/25/23 21:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124	07/12/23 00:00	07/25/23 21:41	50
Dibromofluoromethane (Surr)	101		75 - 120	07/12/23 00:00	07/25/23 21:41	50
1,2-Dichloroethane-d4 (Surr)	106		75 - 126	07/12/23 00:00	07/25/23 21:41	50
Toluene-d8 (Surr)	91		75 - 120	07/12/23 00:00	07/25/23 21:41	50

Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

GC/MS VOA

Prep Batch: 723857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236611-1	GP-9 (2-4)	Total/NA	Solid	5035	
500-236611-2	GP-9 (6-8)	Total/NA	Solid	5035	
500-236611-3	GP-9 (16-18)	Total/NA	Solid	5035	
500-236611-4	GP-9 (19-20)	Total/NA	Solid	5035	
500-236611-5	GP-10 (2-4)	Total/NA	Solid	5035	
500-236611-6	GP-10 (10-12)	Total/NA	Solid	5035	
500-236611-7	GP-10 (16-18)	Total/NA	Solid	5035	
500-236611-8	GP-11 (2-4)	Total/NA	Solid	5035	
500-236611-9	GP-11 (10-12)	Total/NA	Solid	5035	
500-236611-10	GP-11 (16-18)	Total/NA	Solid	5035	
500-236611-11	GP-12 (2-4)	Total/NA	Solid	5035	
500-236611-12	GP-12 (10-12)	Total/NA	Solid	5035	
500-236611-13	GP-12 (16-18)	Total/NA	Solid	5035	
500-236611-14	GP-13 (2-4)	Total/NA	Solid	5035	
500-236611-15	GP-13 (10-12)	Total/NA	Solid	5035	
500-236611-16	GP-13 (16-18)	Total/NA	Solid	5035	
500-236611-17	GP-14 (2-4)	Total/NA	Solid	5035	
500-236611-18	GP-14 (10-12)	Total/NA	Solid	5035	
500-236611-19	GP-14 (16-18)	Total/NA	Solid	5035	
500-236611-20	TRIP BLANK	Total/NA	Solid	5035	
LB3 500-723857/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-723857/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 724149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236611-1	GP-9 (2-4)	Total/NA	Solid	8260D	723857
500-236611-4	GP-9 (19-20)	Total/NA	Solid	8260D	723857
500-236611-8	GP-11 (2-4)	Total/NA	Solid	8260D	723857
500-236611-9	GP-11 (10-12)	Total/NA	Solid	8260D	723857
500-236611-10	GP-11 (16-18)	Total/NA	Solid	8260D	723857
500-236611-13	GP-12 (16-18)	Total/NA	Solid	8260D	723857
500-236611-14	GP-13 (2-4)	Total/NA	Solid	8260D	723857
500-236611-15	GP-13 (10-12)	Total/NA	Solid	8260D	723857
500-236611-16	GP-13 (16-18)	Total/NA	Solid	8260D	723857
500-236611-17	GP-14 (2-4)	Total/NA	Solid	8260D	723857
500-236611-19	GP-14 (16-18)	Total/NA	Solid	8260D	723857
LB3 500-723857/21-A	Method Blank	Total/NA	Solid	8260D	723857
MB 500-724149/5	Method Blank	Total/NA	Solid	8260D	
LCS 500-724149/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 724727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236611-2	GP-9 (6-8)	Total/NA	Solid	8260D	723857
500-236611-3	GP-9 (16-18)	Total/NA	Solid	8260D	723857
500-236611-5	GP-10 (2-4)	Total/NA	Solid	8260D	723857
500-236611-6	GP-10 (10-12)	Total/NA	Solid	8260D	723857
500-236611-7	GP-10 (16-18)	Total/NA	Solid	8260D	723857
500-236611-11	GP-12 (2-4)	Total/NA	Solid	8260D	723857
500-236611-12	GP-12 (10-12)	Total/NA	Solid	8260D	723857
500-236611-18	GP-14 (10-12)	Total/NA	Solid	8260D	723857
500-236611-20	TRIP BLANK	Total/NA	Solid	8260D	723857

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

GC/MS VOA (Continued)

Analysis Batch: 724727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-724727/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-724727/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 724927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-724927/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-723857/22-A	Lab Control Sample	Total/NA	Solid	8260D	723857
LCS 500-724927/4	Lab Control Sample	Total/NA	Solid	8260D	

General Chemistry

Analysis Batch: 723575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236611-1	GP-9 (2-4)	Total/NA	Solid	Moisture	
500-236611-2	GP-9 (6-8)	Total/NA	Solid	Moisture	
500-236611-3	GP-9 (16-18)	Total/NA	Solid	Moisture	
500-236611-4	GP-9 (19-20)	Total/NA	Solid	Moisture	
500-236611-5	GP-10 (2-4)	Total/NA	Solid	Moisture	
500-236611-6	GP-10 (10-12)	Total/NA	Solid	Moisture	
500-236611-7	GP-10 (16-18)	Total/NA	Solid	Moisture	
500-236611-8	GP-11 (2-4)	Total/NA	Solid	Moisture	
500-236611-9	GP-11 (10-12)	Total/NA	Solid	Moisture	
500-236611-10	GP-11 (16-18)	Total/NA	Solid	Moisture	
500-236611-11	GP-12 (2-4)	Total/NA	Solid	Moisture	
500-236611-12	GP-12 (10-12)	Total/NA	Solid	Moisture	
500-236611-13	GP-12 (16-18)	Total/NA	Solid	Moisture	
500-236611-14	GP-13 (2-4)	Total/NA	Solid	Moisture	
500-236611-15	GP-13 (10-12)	Total/NA	Solid	Moisture	
500-236611-16	GP-13 (16-18)	Total/NA	Solid	Moisture	
500-236611-17	GP-14 (2-4)	Total/NA	Solid	Moisture	
500-236611-18	GP-14 (10-12)	Total/NA	Solid	Moisture	

Analysis Batch: 723580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236611-19	GP-14 (16-18)	Total/NA	Solid	Moisture	
500-236611-19 DU	GP-14 (16-18)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-236611-1	GP-9 (2-4)	111	122 S1+	128 S1+	98
500-236611-2	GP-9 (6-8)	92	101	107	95
500-236611-3	GP-9 (16-18)	95	100	105	96
500-236611-4	GP-9 (19-20)	115	120	124	101
500-236611-5	GP-10 (2-4)	97	98	105	94
500-236611-6	GP-10 (10-12)	95	97	106	96
500-236611-7	GP-10 (16-18)	97	98	106	93
500-236611-8	GP-11 (2-4)	111	117	121	96
500-236611-9	GP-11 (10-12)	114	124 S1+	120	96
500-236611-10	GP-11 (16-18)	114	122 S1+	130 S1+	98
500-236611-11	GP-12 (2-4)	98	98	108	93
500-236611-12	GP-12 (10-12)	96	97	102	94
500-236611-13	GP-12 (16-18)	103	117	124	99
500-236611-14	GP-13 (2-4)	116	114	116	100
500-236611-15	GP-13 (10-12)	107	115	114	98
500-236611-16	GP-13 (16-18)	115	122 S1+	122	100
500-236611-17	GP-14 (2-4)	114	127 S1+	127 S1+	97
500-236611-18	GP-14 (10-12)	97	99	109	94
500-236611-19	GP-14 (16-18)	116	121 S1+	127 S1+	100
500-236611-20	TRIP BLANK	101	101	106	91
LB3 500-723857/21-A	Method Blank	103	126 S1+	126	98
LCS 500-723857/22-A	Lab Control Sample	98	104	106	94
LCS 500-724149/4	Lab Control Sample	98	101	102	111
LCS 500-724727/4	Lab Control Sample	99	102	107	95
LCS 500-724927/4	Lab Control Sample	96	102	101	94
MB 500-724149/5	Method Blank	117	113	122	103
MB 500-724727/6	Method Blank	107	100	106	94
MB 500-724927/6	Method Blank	107	104	106	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-723857/21-A
Matrix: Solid
Analysis Batch: 724149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723857

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Bromobenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Bromochloromethane	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Bromodichloromethane	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Bromoform	<24		50	24	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Bromomethane	<40		150	40	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Chlorobenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Chloroethane	<25		50	25	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Chloroform	<19		100	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Chloromethane	<16		250	16	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Dibromochloromethane	<24		50	24	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Dibromomethane	<14		50	14	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Isopropylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Isopropyl ether	<14		50	14	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Methylene Chloride	122	J	250	82	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Naphthalene	<17		50	17	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
n-Butylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
N-Propylbenzene	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Styrene	42.0	J	50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Tetrachloroethene	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Toluene	<7.4		13	7.4	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: LB3 500-723857/21-A
Matrix: Solid
Analysis Batch: 724149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723857

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Vinyl chloride	<13		50	13	ug/Kg		07/19/23 21:55	07/21/23 12:40	50
Xylenes, Total	<11		25	11	ug/Kg		07/19/23 21:55	07/21/23 12:40	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		72 - 124	07/19/23 21:55	07/21/23 12:40	50
Dibromofluoromethane (Surr)	126	S1+	75 - 120	07/19/23 21:55	07/21/23 12:40	50
1,2-Dichloroethane-d4 (Surr)	126		75 - 126	07/19/23 21:55	07/21/23 12:40	50
Toluene-d8 (Surr)	98		75 - 120	07/19/23 21:55	07/21/23 12:40	50

Lab Sample ID: LCS 500-723857/22-A
Matrix: Solid
Analysis Batch: 724927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723857

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	2500	2310		ug/Kg		93	70 - 120
Bromobenzene	2500	2410		ug/Kg		97	70 - 122
Bromochloromethane	2500	2330		ug/Kg		93	65 - 122
Bromodichloromethane	2500	2330		ug/Kg		93	69 - 120
Bromoform	2500	2100		ug/Kg		84	56 - 132
Bromomethane	2500	1680		ug/Kg		67	40 - 152
Carbon tetrachloride	2500	2330		ug/Kg		93	59 - 133
Chlorobenzene	2500	2400		ug/Kg		96	70 - 120
Chloroethane	2500	2180		ug/Kg		87	48 - 136
Chloroform	2500	2340		ug/Kg		94	70 - 120
Chloromethane	2500	1630		ug/Kg		65	56 - 152
2-Chlorotoluene	2500	2180		ug/Kg		87	70 - 125
4-Chlorotoluene	2500	2210		ug/Kg		88	68 - 124
cis-1,2-Dichloroethene	2500	2230		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	2500	2220		ug/Kg		89	64 - 127
Dibromochloromethane	2500	2120		ug/Kg		85	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2040		ug/Kg		81	56 - 123
1,2-Dibromoethane	2500	2370		ug/Kg		95	70 - 125
Dibromomethane	2500	2320		ug/Kg		93	70 - 120
1,2-Dichlorobenzene	2500	2290		ug/Kg		92	70 - 125
1,3-Dichlorobenzene	2500	2290		ug/Kg		92	70 - 125
1,4-Dichlorobenzene	2500	2210		ug/Kg		89	70 - 120
Dichlorodifluoromethane	2500	1410		ug/Kg		56	40 - 159
1,1-Dichloroethane	2500	2370		ug/Kg		95	70 - 125

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: LCS 500-723857/22-A
Matrix: Solid
Analysis Batch: 724927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2500	2630		ug/Kg		105	68 - 127
1,1-Dichloroethene	2500	2070		ug/Kg		83	67 - 122
1,2-Dichloropropane	2500	2540		ug/Kg		101	67 - 130
1,3-Dichloropropane	2500	2480		ug/Kg		99	62 - 136
2,2-Dichloropropane	2500	2120		ug/Kg		85	58 - 139
1,1-Dichloropropene	2500	2430		ug/Kg		97	70 - 121
Ethylbenzene	2500	2200		ug/Kg		88	70 - 123
Hexachlorobutadiene	2500	2730		ug/Kg		109	51 - 150
Isopropylbenzene	2500	2280		ug/Kg		91	70 - 126
Methylene Chloride	2500	2210		ug/Kg		88	69 - 125
Methyl tert-butyl ether	2500	2530		ug/Kg		101	55 - 123
Naphthalene	2500	1980		ug/Kg		79	53 - 144
n-Butylbenzene	2500	2050		ug/Kg		82	68 - 125
N-Propylbenzene	2500	2170		ug/Kg		87	69 - 127
p-Isopropyltoluene	2500	2220		ug/Kg		89	70 - 125
sec-Butylbenzene	2500	2220		ug/Kg		89	70 - 123
Styrene	2500	2320		ug/Kg		93	70 - 120
tert-Butylbenzene	2500	2280		ug/Kg		91	70 - 121
1,1,1,2-Tetrachloroethane	2500	2270		ug/Kg		91	70 - 125
1,1,1,2,2-Tetrachloroethane	2500	2100		ug/Kg		84	62 - 140
Tetrachloroethene	2500	2570		ug/Kg		103	70 - 128
Toluene	2500	2090		ug/Kg		83	70 - 125
trans-1,2-Dichloroethene	2500	2180		ug/Kg		87	70 - 125
trans-1,3-Dichloropropene	2500	2270		ug/Kg		91	62 - 128
1,2,3-Trichlorobenzene	2500	2260		ug/Kg		90	51 - 145
1,2,4-Trichlorobenzene	2500	2250		ug/Kg		90	57 - 137
1,1,1-Trichloroethane	2500	2390		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	2500	2180		ug/Kg		87	71 - 130
Trichloroethene	2500	2430		ug/Kg		97	70 - 125
Trichlorofluoromethane	2500	2360		ug/Kg		94	55 - 128
1,2,3-Trichloropropane	2500	2440		ug/Kg		98	50 - 133
1,2,4-Trimethylbenzene	2500	2280		ug/Kg		91	70 - 123
1,3,5-Trimethylbenzene	2500	2310		ug/Kg		92	70 - 123
Vinyl chloride	2500	1700		ug/Kg		68	64 - 126
Xylenes, Total	5000	4510		ug/Kg		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane (Surr)	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-724149/5
Matrix: Solid
Analysis Batch: 724149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/21/23 10:27	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724149/5
Matrix: Solid
Analysis Batch: 724149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/21/23 10:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/21/23 10:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/21/23 10:27	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/21/23 10:27	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/21/23 10:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/21/23 10:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/21/23 10:27	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/21/23 10:27	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/21/23 10:27	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			07/21/23 10:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/21/23 10:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/21/23 10:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/21/23 10:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/21/23 10:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/21/23 10:27	1
1,2-Dibromo-3-Chloropropane	5.31		5.0	2.0	ug/Kg			07/21/23 10:27	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/21/23 10:27	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/21/23 10:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/21/23 10:27	1
1,3-Dichlorobenzene	0.469	J	1.0	0.40	ug/Kg			07/21/23 10:27	1
1,4-Dichlorobenzene	0.559	J	1.0	0.36	ug/Kg			07/21/23 10:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/21/23 10:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/21/23 10:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/21/23 10:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/21/23 10:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/21/23 10:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/21/23 10:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/21/23 10:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/21/23 10:27	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/21/23 10:27	1
Hexachlorobutadiene	0.779	J	1.0	0.45	ug/Kg			07/21/23 10:27	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/23 10:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/21/23 10:27	1
Methylene Chloride	2.01	J	5.0	1.6	ug/Kg			07/21/23 10:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/21/23 10:27	1
Naphthalene	7.08		1.0	0.33	ug/Kg			07/21/23 10:27	1
n-Butylbenzene	0.826	J	1.0	0.39	ug/Kg			07/21/23 10:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/21/23 10:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/21/23 10:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/23 10:27	1
Styrene	0.969	J	1.0	0.39	ug/Kg			07/21/23 10:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/23 10:27	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/21/23 10:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/21/23 10:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/21/23 10:27	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/21/23 10:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/21/23 10:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/21/23 10:27	1
1,2,3-Trichlorobenzene	5.48		1.0	0.46	ug/Kg			07/21/23 10:27	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724149/5
Matrix: Solid
Analysis Batch: 724149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/21/23 10:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/21/23 10:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/21/23 10:27	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/21/23 10:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/21/23 10:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/21/23 10:27	1
1,2,4-Trimethylbenzene	0.781	J	1.0	0.36	ug/Kg			07/21/23 10:27	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/23 10:27	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/21/23 10:27	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/21/23 10:27	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	117		72 - 124		07/21/23 10:27	1
Dibromofluoromethane (Surr)	113		75 - 120		07/21/23 10:27	1
1,2-Dichloroethane-d4 (Surr)	122		75 - 126		07/21/23 10:27	1
Toluene-d8 (Surr)	103		75 - 120		07/21/23 10:27	1

Lab Sample ID: LCS 500-724149/4
Matrix: Solid
Analysis Batch: 724149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	43.1		ug/Kg		86	70 - 122
Bromochloromethane	50.0	40.8		ug/Kg		82	65 - 122
Bromodichloromethane	50.0	51.3		ug/Kg		103	69 - 120
Bromoform	50.0	53.3		ug/Kg		107	56 - 132
Bromomethane	50.0	53.0		ug/Kg		106	40 - 152
Carbon tetrachloride	50.0	47.5		ug/Kg		95	59 - 133
Chlorobenzene	50.0	45.0		ug/Kg		90	70 - 120
Chloroethane	50.0	45.8		ug/Kg		92	48 - 136
Chloroform	50.0	50.4		ug/Kg		101	70 - 120
Chloromethane	50.0	33.9		ug/Kg		68	56 - 152
2-Chlorotoluene	50.0	45.5		ug/Kg		91	70 - 125
4-Chlorotoluene	50.0	48.0		ug/Kg		96	68 - 124
cis-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	70 - 125
cis-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	64 - 127
Dibromochloromethane	50.0	48.4		ug/Kg		97	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/Kg		98	56 - 123
1,2-Dibromoethane	50.0	47.4		ug/Kg		95	70 - 125
Dibromomethane	50.0	43.2		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	43.7		ug/Kg		87	70 - 125
1,3-Dichlorobenzene	50.0	44.6		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	50.0	43.7		ug/Kg		87	70 - 120
Dichlorodifluoromethane	50.0	41.7		ug/Kg		83	40 - 159
1,1-Dichloroethane	50.0	44.3		ug/Kg		89	70 - 125
1,2-Dichloroethane	50.0	41.6		ug/Kg		83	68 - 127
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	67 - 122

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: LCS 500-724149/4
Matrix: Solid
Analysis Batch: 724149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	42.9		ug/Kg		86	67 - 130
1,3-Dichloropropane	50.0	46.9		ug/Kg		94	62 - 136
2,2-Dichloropropane	50.0	51.6		ug/Kg		103	58 - 139
1,1-Dichloropropene	50.0	50.4		ug/Kg		101	70 - 121
Ethylbenzene	50.0	45.4		ug/Kg		91	70 - 123
Hexachlorobutadiene	50.0	46.9		ug/Kg		94	51 - 150
Isopropylbenzene	50.0	40.9		ug/Kg		82	70 - 126
Methylene Chloride	50.0	51.3		ug/Kg		103	69 - 125
Methyl tert-butyl ether	50.0	50.0		ug/Kg		100	55 - 123
Naphthalene	50.0	42.0		ug/Kg		84	53 - 144
n-Butylbenzene	50.0	42.1		ug/Kg		84	68 - 125
N-Propylbenzene	50.0	41.9		ug/Kg		84	69 - 127
p-Isopropyltoluene	50.0	42.7		ug/Kg		85	70 - 125
sec-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 123
Styrene	50.0	41.6		ug/Kg		83	70 - 120
tert-Butylbenzene	50.0	38.5		ug/Kg		77	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/Kg		101	62 - 140
Tetrachloroethene	50.0	53.0		ug/Kg		106	70 - 128
Toluene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	45.7		ug/Kg		91	62 - 128
1,2,3-Trichlorobenzene	50.0	45.0		ug/Kg		90	51 - 145
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	57 - 137
1,1,1-Trichloroethane	50.0	48.7		ug/Kg		97	70 - 125
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	71 - 130
Trichloroethene	50.0	43.1		ug/Kg		86	70 - 125
Trichlorofluoromethane	50.0	49.7		ug/Kg		99	55 - 128
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	50 - 133
1,2,4-Trimethylbenzene	50.0	41.6		ug/Kg		83	70 - 123
1,3,5-Trimethylbenzene	50.0	42.1		ug/Kg		84	70 - 123
Vinyl chloride	50.0	42.8		ug/Kg		86	64 - 126
Xylenes, Total	100	93.3		ug/Kg		93	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane (Surr)	101		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-724727/6
Matrix: Solid
Analysis Batch: 724727

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/25/23 21:17	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/25/23 21:17	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724727/6
Matrix: Solid
Analysis Batch: 724727

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/25/23 21:17	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/25/23 21:17	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/25/23 21:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/25/23 21:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/25/23 21:17	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/25/23 21:17	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			07/25/23 21:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/25/23 21:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/25/23 21:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/25/23 21:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/25/23 21:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/25/23 21:17	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/25/23 21:17	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/25/23 21:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/25/23 21:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/25/23 21:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/25/23 21:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/25/23 21:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/25/23 21:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/25/23 21:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/25/23 21:17	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/25/23 21:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/25/23 21:17	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/25/23 21:17	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/25/23 21:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/25/23 21:17	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/25/23 21:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/25/23 21:17	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/25/23 21:17	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/25/23 21:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/25/23 21:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/25/23 21:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/25/23 21:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/25/23 21:17	1
Toluene	0.193	J	0.25	0.15	ug/Kg			07/25/23 21:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/25/23 21:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/25/23 21:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/25/23 21:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/25/23 21:17	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724727/6
Matrix: Solid
Analysis Batch: 724727

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/25/23 21:17	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/25/23 21:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/25/23 21:17	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/25/23 21:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/25/23 21:17	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/25/23 21:17	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/25/23 21:17	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/25/23 21:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		07/25/23 21:17	1
Dibromofluoromethane (Surr)	100		75 - 120		07/25/23 21:17	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		07/25/23 21:17	1
Toluene-d8 (Surr)	94		75 - 120		07/25/23 21:17	1

Lab Sample ID: LCS 500-724727/4
Matrix: Solid
Analysis Batch: 724727

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	45.0		ug/Kg		90	70 - 120
Bromobenzene	50.0	46.2		ug/Kg		92	70 - 122
Bromochloromethane	50.0	44.8		ug/Kg		90	65 - 122
Bromodichloromethane	50.0	45.9		ug/Kg		92	69 - 120
Bromoform	50.0	44.8		ug/Kg		90	56 - 132
Bromomethane	50.0	41.3		ug/Kg		83	40 - 152
Carbon tetrachloride	50.0	47.2		ug/Kg		94	59 - 133
Chlorobenzene	50.0	46.1		ug/Kg		92	70 - 120
Chloroethane	50.0	46.7		ug/Kg		93	48 - 136
Chloroform	50.0	46.8		ug/Kg		94	70 - 120
Chloromethane	50.0	39.5		ug/Kg		79	56 - 152
2-Chlorotoluene	50.0	43.5		ug/Kg		87	70 - 125
4-Chlorotoluene	50.0	42.3		ug/Kg		85	68 - 124
cis-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	44.9		ug/Kg		90	64 - 127
Dibromochloromethane	50.0	43.8		ug/Kg		88	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.9		ug/Kg		82	56 - 123
1,2-Dibromoethane	50.0	45.7		ug/Kg		91	70 - 125
Dibromomethane	50.0	44.4		ug/Kg		89	70 - 120
1,2-Dichlorobenzene	50.0	43.7		ug/Kg		87	70 - 125
1,3-Dichlorobenzene	50.0	43.5		ug/Kg		87	70 - 125
1,4-Dichlorobenzene	50.0	42.7		ug/Kg		85	70 - 120
Dichlorodifluoromethane	50.0	48.9		ug/Kg		98	40 - 159
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 125
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	68 - 127
1,1-Dichloroethene	50.0	43.9		ug/Kg		88	67 - 122
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	67 - 130
1,3-Dichloropropane	50.0	48.0		ug/Kg		96	62 - 136

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: LCS 500-724727/4
Matrix: Solid
Analysis Batch: 724727

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	40.7		ug/Kg		81	58 - 139
1,1-Dichloropropene	50.0	47.5		ug/Kg		95	70 - 121
Ethylbenzene	50.0	43.0		ug/Kg		86	70 - 123
Hexachlorobutadiene	50.0	50.7		ug/Kg		101	51 - 150
Isopropylbenzene	50.0	44.5		ug/Kg		89	70 - 126
Methylene Chloride	50.0	43.9		ug/Kg		88	69 - 125
Methyl tert-butyl ether	50.0	45.7		ug/Kg		91	55 - 123
Naphthalene	50.0	36.7		ug/Kg		73	53 - 144
n-Butylbenzene	50.0	39.2		ug/Kg		78	68 - 125
N-Propylbenzene	50.0	41.8		ug/Kg		84	69 - 127
p-Isopropyltoluene	50.0	44.0		ug/Kg		88	70 - 125
sec-Butylbenzene	50.0	43.6		ug/Kg		87	70 - 123
Styrene	50.0	44.5		ug/Kg		89	70 - 120
tert-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 121
1,1,1,2-Tetrachloroethane	50.0	45.3		ug/Kg		91	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.8		ug/Kg		82	62 - 140
Tetrachloroethene	50.0	51.3		ug/Kg		103	70 - 128
Toluene	50.0	40.6		ug/Kg		81	70 - 125
trans-1,2-Dichloroethene	50.0	44.3		ug/Kg		89	70 - 125
trans-1,3-Dichloropropene	50.0	44.2		ug/Kg		88	62 - 128
1,2,3-Trichlorobenzene	50.0	40.9		ug/Kg		82	51 - 145
1,2,4-Trichlorobenzene	50.0	40.8		ug/Kg		82	57 - 137
1,1,1-Trichloroethane	50.0	47.8		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	50.0	44.9		ug/Kg		90	71 - 130
Trichloroethene	50.0	48.5		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	48.6		ug/Kg		97	55 - 128
1,2,3-Trichloropropane	50.0	48.5		ug/Kg		97	50 - 133
1,2,4-Trimethylbenzene	50.0	44.4		ug/Kg		89	70 - 123
1,3,5-Trimethylbenzene	50.0	44.9		ug/Kg		90	70 - 123
Vinyl chloride	50.0	37.4		ug/Kg		75	64 - 126
Xylenes, Total	100	87.7		ug/Kg		88	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane (Surr)	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-724927/6
Matrix: Solid
Analysis Batch: 724927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/26/23 13:40	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/26/23 13:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/26/23 13:40	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/26/23 13:40	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724927/6
Matrix: Solid
Analysis Batch: 724927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/26/23 13:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/26/23 13:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/26/23 13:40	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/26/23 13:40	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			07/26/23 13:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/26/23 13:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/26/23 13:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/26/23 13:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/26/23 13:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/26/23 13:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/26/23 13:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/26/23 13:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/26/23 13:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/26/23 13:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/26/23 13:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/26/23 13:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/26/23 13:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/26/23 13:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/26/23 13:40	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/26/23 13:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/26/23 13:40	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/26/23 13:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/26/23 13:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/26/23 13:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/26/23 13:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/26/23 13:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/26/23 13:40	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/26/23 13:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/26/23 13:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/26/23 13:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/26/23 13:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/26/23 13:40	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/26/23 13:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/26/23 13:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/26/23 13:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/26/23 13:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/26/23 13:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/26/23 13:40	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/26/23 13:40	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: MB 500-724927/6
Matrix: Solid
Analysis Batch: 724927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/26/23 13:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/26/23 13:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/26/23 13:40	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/26/23 13:40	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/26/23 13:40	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/26/23 13:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		07/26/23 13:40	1
Dibromofluoromethane (Surr)	104		75 - 120		07/26/23 13:40	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		07/26/23 13:40	1
Toluene-d8 (Surr)	90		75 - 120		07/26/23 13:40	1

Lab Sample ID: LCS 500-724927/4
Matrix: Solid
Analysis Batch: 724927

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	43.7		ug/Kg		87	70 - 120
Bromobenzene	50.0	44.6		ug/Kg		89	70 - 122
Bromochloromethane	50.0	44.0		ug/Kg		88	65 - 122
Bromodichloromethane	50.0	44.6		ug/Kg		89	69 - 120
Bromoform	50.0	42.8		ug/Kg		86	56 - 132
Bromomethane	50.0	45.1		ug/Kg		90	40 - 152
Carbon tetrachloride	50.0	48.2		ug/Kg		96	59 - 133
Chlorobenzene	50.0	45.0		ug/Kg		90	70 - 120
Chloroethane	50.0	51.7		ug/Kg		103	48 - 136
Chloroform	50.0	44.8		ug/Kg		90	70 - 120
Chloromethane	50.0	43.0		ug/Kg		86	56 - 152
2-Chlorotoluene	50.0	42.7		ug/Kg		85	70 - 125
4-Chlorotoluene	50.0	42.4		ug/Kg		85	68 - 124
cis-1,2-Dichloroethene	50.0	43.7		ug/Kg		87	70 - 125
cis-1,3-Dichloropropene	50.0	43.7		ug/Kg		87	64 - 127
Dibromochloromethane	50.0	41.3		ug/Kg		83	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/Kg		75	56 - 123
1,2-Dibromoethane	50.0	43.6		ug/Kg		87	70 - 125
Dibromomethane	50.0	42.1		ug/Kg		84	70 - 120
1,2-Dichlorobenzene	50.0	42.6		ug/Kg		85	70 - 125
1,3-Dichlorobenzene	50.0	43.1		ug/Kg		86	70 - 125
1,4-Dichlorobenzene	50.0	42.5		ug/Kg		85	70 - 120
Dichlorodifluoromethane	50.0	58.2		ug/Kg		116	40 - 159
1,1-Dichloroethane	50.0	45.7		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	48.2		ug/Kg		96	68 - 127
1,1-Dichloroethene	50.0	44.6		ug/Kg		89	67 - 122
1,2-Dichloropropane	50.0	45.2		ug/Kg		90	67 - 130
1,3-Dichloropropane	50.0	45.8		ug/Kg		92	62 - 136
2,2-Dichloropropane	50.0	43.8		ug/Kg		88	58 - 139
1,1-Dichloropropene	50.0	47.5		ug/Kg		95	70 - 121

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

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

Lab Sample ID: LCS 500-724927/4
Matrix: Solid
Analysis Batch: 724927

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	43.3		ug/Kg		87	70 - 123
Hexachlorobutadiene	50.0	53.4		ug/Kg		107	51 - 150
Isopropylbenzene	50.0	44.3		ug/Kg		89	70 - 126
Methylene Chloride	50.0	42.5		ug/Kg		85	69 - 125
Methyl tert-butyl ether	50.0	44.9		ug/Kg		90	55 - 123
Naphthalene	50.0	34.9		ug/Kg		70	53 - 144
n-Butylbenzene	50.0	40.4		ug/Kg		81	68 - 125
N-Propylbenzene	50.0	42.0		ug/Kg		84	69 - 127
p-Isopropyltoluene	50.0	43.9		ug/Kg		88	70 - 125
sec-Butylbenzene	50.0	43.2		ug/Kg		86	70 - 123
Styrene	50.0	44.1		ug/Kg		88	70 - 120
tert-Butylbenzene	50.0	44.4		ug/Kg		89	70 - 121
1,1,1,2-Tetrachloroethane	50.0	43.4		ug/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	50.0	38.7		ug/Kg		77	62 - 140
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 128
Toluene	50.0	40.0		ug/Kg		80	70 - 125
trans-1,2-Dichloroethene	50.0	42.8		ug/Kg		86	70 - 125
trans-1,3-Dichloropropene	50.0	43.1		ug/Kg		86	62 - 128
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	51 - 145
1,2,4-Trichlorobenzene	50.0	41.9		ug/Kg		84	57 - 137
1,1,1-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	50.0	41.4		ug/Kg		83	71 - 130
Trichloroethene	50.0	45.7		ug/Kg		91	70 - 125
Trichlorofluoromethane	50.0	54.6		ug/Kg		109	55 - 128
1,2,3-Trichloropropane	50.0	45.4		ug/Kg		91	50 - 133
1,2,4-Trimethylbenzene	50.0	44.2		ug/Kg		88	70 - 123
1,3,5-Trimethylbenzene	50.0	44.2		ug/Kg		88	70 - 123
Vinyl chloride	50.0	44.3		ug/Kg		89	64 - 126
Xylenes, Total	100	86.7		ug/Kg		87	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
Toluene-d8 (Surr)	94		75 - 120

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (2-4)
Date Collected: 07/12/23 09:40
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-9 (2-4)
Date Collected: 07/12/23 09:40
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-1
Matrix: Solid
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 09:40
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 13:05

Client Sample ID: GP-9 (6-8)
Date Collected: 07/12/23 09:45
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-9 (6-8)
Date Collected: 07/12/23 09:45
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-2
Matrix: Solid
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 09:45
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/25/23 22:29

Client Sample ID: GP-9 (16-18)
Date Collected: 07/12/23 09:50
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-9 (16-18)
Date Collected: 07/12/23 09:50
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-3
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 09:50
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/25/23 22:54

Client Sample ID: GP-9 (19-20)
Date Collected: 07/12/23 09:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-9 (19-20)
Date Collected: 07/12/23 09:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-4
Matrix: Solid
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 09:55
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 14:20

Client Sample ID: GP-10 (2-4)
Date Collected: 07/12/23 11:15
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-10 (2-4)
Date Collected: 07/12/23 11:15
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-5
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 11:15
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/25/23 23:18

Client Sample ID: GP-10 (10-12)
Date Collected: 07/12/23 11:20
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-10 (10-12)
Date Collected: 07/12/23 11:20
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-6
Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 11:20
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/25/23 23:42

Client Sample ID: GP-10 (16-18)
Date Collected: 07/12/23 11:25
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-10 (16-18)
Date Collected: 07/12/23 11:25
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-7
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 11:25
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/26/23 00:07

Client Sample ID: GP-11 (2-4)
Date Collected: 07/12/23 10:25
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-11 (2-4)
Date Collected: 07/12/23 10:25
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-8
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 10:25
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 15:59

Client Sample ID: GP-11 (10-12)
Date Collected: 07/12/23 10:30
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-11 (10-12)
Date Collected: 07/12/23 10:30
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-9
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 10:30
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 16:24

Client Sample ID: GP-11 (16-18)
Date Collected: 07/12/23 10:35
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-11 (16-18)
Date Collected: 07/12/23 10:35
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-10
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 10:35
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 16:49

Client Sample ID: GP-12 (2-4)
Date Collected: 07/12/23 11:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-12 (2-4)
Date Collected: 07/12/23 11:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-11
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 11:55
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/26/23 00:31

Client Sample ID: GP-12 (10-12)
Date Collected: 07/12/23 12:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-12 (10-12)
Date Collected: 07/12/23 12:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-12
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 12:00
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/26/23 00:55

Client Sample ID: GP-12 (16-18)
Date Collected: 07/12/23 12:05
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-12 (16-18)
Date Collected: 07/12/23 12:05
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-13
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 12:05
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 18:04

Client Sample ID: GP-13 (2-4)
Date Collected: 07/12/23 08:45
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-13 (2-4)
Date Collected: 07/12/23 08:45
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-14
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 08:45
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 18:29

Client Sample ID: GP-13 (10-12)
Date Collected: 07/12/23 08:50
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-13 (10-12)
Date Collected: 07/12/23 08:50
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-15
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 08:50
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 18:53

Client Sample ID: GP-13 (16-18)
Date Collected: 07/12/23 08:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-13 (16-18)
Date Collected: 07/12/23 08:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-16
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 08:55
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 19:18

Client Sample ID: GP-14 (2-4)
Date Collected: 07/12/23 12:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-14 (2-4)
Date Collected: 07/12/23 12:55
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-17
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 12:55
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 19:43

Client Sample ID: GP-14 (10-12)
Date Collected: 07/12/23 13:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723575	LWN	EET CHI	07/18/23 14:10

Client Sample ID: GP-14 (10-12)
Date Collected: 07/12/23 13:00
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-18
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 13:00
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/26/23 01:19

Client Sample ID: GP-14 (16-18)
Date Collected: 07/12/23 13:05
Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	723580	LWN	EET CHI	07/18/23 14:33

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Client Sample ID: GP-14 (16-18)

Date Collected: 07/12/23 13:05

Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-19

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 13:05
Total/NA	Analysis	8260D		50	724149	PMF	EET CHI	07/21/23 20:33

Client Sample ID: TRIP BLANK

Date Collected: 07/12/23 00:00

Date Received: 07/14/23 09:50

Lab Sample ID: 500-236611-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723857	WRE	EET CHI	07/12/23 00:00
Total/NA	Analysis	8260D		50	724727	PMF	EET CHI	07/25/23 21:41

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236611-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record



Environmental Test

Client Information		Sampler: <i>Michelle Levenhagen</i>		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No: 500-114172-47099 1		
Client Contact: Susan Petrofske		Phone: 262-901-3563		E-Mail: Sandra.Fredrick@et.eurofins.com		State of Origin: WI		Page: 1 1 of 2		
Company: Ramboll US Corporation				PWSID		Analysis Requested				
Address: 234 W Florida Street Fifth Floor				Due Date Requested		 500-236611 COC				
City: Milwaukee		TAT Requested (days): <i>STANDARD 10-DAY</i>		Preservation Codes						
State/Zip: WI 53204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL M Hexane B NaOH N None C Zn Acetate C AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)						
Phone: 262-901-3501		PO #		Purchase Order Requested						
Email: SPETROFSKE@ramboll.com		WO #		Job #: 500-236611						
Project Name: Marquette AHPRC 16900		Project #: 50021868		SSOW#:		Other:				
Site:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes/No)	Perform MS/MSD (Yes/No)	Total Number of Containers	Special Instructions/Note	
1	GP-9 (2-4)	7/12/23	0940	G	Soil	X				
2	GP-9 (6-8)	7/12/23	0945	G	Soil	X				
3	GP-9 (16-18)	7/12/23	0950	G	Soil	X				
4	GP-9 (19-20)	7/12/23	0955	G	Soil	X				
5	GP-10 (2-4)	7/12/23	1115	G	Soil	X				
6	GP-10 (10-12)	7/12/23	1120	G	Soil	X				
7	GP-10 (16-18)	7/12/23	1125	G	Soil	X				
8	GP-11 (2-4)	7/12/23	1025	G	Soil	X				
9	GP-11 (10-12)	7/12/23	1030	G	Soil	X				
10	GP-11 (16-18)	7/12/23	1035	G	Soil	X				
11	GP-12 (2-4)	7/12/23	1155	G	Soil	X				
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date		Time		Method of Shipment:				
Relinquished by: <i>Michelle Levenhagen</i>		Date/Time: 7/13/2023 1610		Company: Ramboll		Received by: <i>[Signature]</i>		Date/Time: 7-13-23 1510		Company: Eurofins
Relinquished by: <i>[Signature]</i>		Date/Time: 7-13-23 1700		Company: Eurofins		Received by: <i>Stephanie Hemond</i>		Date/Time: 7/14/23 0950		Company: EEIA
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C, and Other Remarks: 2.9+1.8						

Eurofins Chicago

2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record



E R T

Client Information			Sampler: <i>Mitchell Levenhagen</i>		Lab PM: Fredrick Sandie		Carrier Tracking No(s)		COC No. 500-114172-47099 2			
Client Contact: Susan Petrofske			Phone: <i>262-901-3503</i>		E-Mail: Sandra.Fredrick@et.eurofinsus.com		State of Origin: <i>WI</i>		Page 1 <i>2 of 2</i>			
Company: Ramboll US Corporation				PWSID		Analysis Requested				Job #: <i>500-236011</i>		
Address: 234 W Florida Street Fifth Floor			Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) <i>NO</i>						Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydra.e I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Tzma Z other specify) Other:	
City: Milwaukee			TAT Requested (days): <i>STANDARD 10-DAY</i>									
State Zp: WI 53204			Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Phone: <i>262-901-3501</i>			PO #									
Email: SPETROFSKE@ramboll.com			Purchase Order Requested									
Project Name: Marquette AHPRC 16900			Project #: 50021868									
Site			SSOW#									
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)						
<i>GP-12 (10-12)</i>			<i>7/12/23</i>	<i>1200</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-12 (16-18)</i>			<i>7/12/23</i>	<i>1205</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-13 (2-4)</i>			<i>7/12/23</i>	<i>0845</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-13 (10-12)</i>			<i>7/12/23</i>	<i>0850</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-13 (16-18)</i>			<i>7/12/23</i>	<i>0855</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-14 (2-4)</i>			<i>7/12/23</i>	<i>1255</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-14 (10-12)</i>			<i>7/12/23</i>	<i>1300</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>GP-14 (16-18)</i>			<i>7/12/23</i>	<i>1305</i>	<i>G</i>	<i>Soil</i>	<i>X</i>					
<i>TRIP BLANK</i>			<i>7/12/23</i>			<i>Soil</i>	<i>X</i>					
						<i>Water</i>						
						<i>Water</i>	<i>7/12/2023</i>					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by			Date		Time		Method of Shipment					
Relinquished by: <i>Mitchell Levenhagen</i>			Date/Time: <i>7-13-2023 1510</i>		Company: <i>Ramboll</i>		Received by: <i>[Signature]</i>		Date/Time: <i>7-13-23 1510</i>		Company: <i>Eurofins</i>	
Relinquished by: <i>[Signature]</i>			Date/Time: <i>7-13-23 1700</i>		Company: <i>Eurofins</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: <i>7/14/23 0950</i>		Company: <i>EEIA</i>	
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No		Cooler Temperature(s) °C and Other Remarks							

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Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-236611-1

Login Number: 236611

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Susan Petrofske
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 8/1/2023 4:50:56 PM

JOB DESCRIPTION

Marquette AHPRC 16900

JOB NUMBER

500-236612-1

Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
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(920)261-1660



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Case Narrative

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Job ID: 500-236612-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-236612-1

Receipt

The sample was received on 7/14/2023 9:50 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

GC/MS VOA

Method 8260D: The method blank for analytical batch 500-724303 contained Naphthalene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-723858 and analytical batch 500-724303 recovered outside control limits for the following analytes: Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method 8270E: The following sample was diluted due to the nature of the sample matrix: WC-20230712 (500-236612-1). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-724719/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

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

Metals

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

General Chemistry

Method 9012B: The CCV following the samples recovered at 84% rec for cyanide. All other QC for the batch recovered within control limits. The samples were reanalyzed out of hold time and confirmed the results. The original results have been qualified and reported. WC-20230712 (500-236612-1)

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

Organic Prep

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

Detection Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	76	J	380	24	ug/Kg	50	✳	8260D	Total/NA
Naphthalene	520	B	76	25	ug/Kg	50	✳	8260D	Total/NA
n-Butylbenzene	110		76	29	ug/Kg	50	✳	8260D	Total/NA
sec-Butylbenzene	44	J	76	30	ug/Kg	50	✳	8260D	Total/NA
1,2,4-Trimethylbenzene	230		76	27	ug/Kg	50	✳	8260D	Total/NA
1,3,5-Trimethylbenzene	54	J	76	29	ug/Kg	50	✳	8260D	Total/NA
Xylenes, Total	41		38	17	ug/Kg	50	✳	8260D	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010D	TCLP
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA
Paint Filter	PASS				No Unit	1		9095B	Total/NA
Flashpoint	>201		99.0	99.0	Degrees F	1		D92	Total/NA
Specific Gravity	2.1066				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
9045D	pH	SW846	EET CHI
9095B	Paint Filter	SW846	EET CHI
9251	Chlorine, Total	SW846	EET SAV
D92	Flashpoint	ASTM	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
SM 2710F	Specific Gravity, Density	SM	EET CHI
1311	TCLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
5050	Bomb Preparation Method for Solid Waste	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-236612-1	WC-20230712	Solid	07/12/23 13:30	07/14/23 09:50

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Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Date Collected: 07/12/23 13:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Bromobenzene	<27		76	27	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Bromochloromethane	<32		76	32	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Bromodichloromethane	<28		76	28	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Bromoform	<37		76	37	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Bromomethane	<60		230	60	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Carbon tetrachloride	<29		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Chlorobenzene	<29		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Chloroethane	<38		76	38	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Chloroform	<28		150	28	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Chloromethane	76	J	380	24	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
2-Chlorotoluene	<24		76	24	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
4-Chlorotoluene	<26		76	26	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
cis-1,2-Dichloroethene	<31		76	31	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
cis-1,3-Dichloropropene	<31		76	31	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Dibromochloromethane	<37		76	37	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,2-Dibromoethane	<29		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Dibromomethane	<20		76	20	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,2-Dichlorobenzene	<25		76	25	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,3-Dichlorobenzene	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,4-Dichlorobenzene	<28		76	28	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Dichlorodifluoromethane	<51		230	51	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,1-Dichloroethane	<31		76	31	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,2-Dichloroethane	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,1-Dichloroethene	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,2-Dichloropropane	<32		76	32	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,3-Dichloropropane	<27		76	27	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
2,2-Dichloropropane	<34		76	34	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,1-Dichloropropene	<23		76	23	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Ethylbenzene	<14		19	14	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Hexachlorobutadiene	<34		76	34	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Isopropylbenzene	<29		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Isopropyl ether	<21		76	21	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Methylene Chloride	<120		380	120	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Methyl tert-butyl ether	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Naphthalene	520	B	76	25	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
n-Butylbenzene	110		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
N-Propylbenzene	<31		76	31	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
p-Isopropyltoluene	<27		76	27	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
sec-Butylbenzene	44	J	76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Styrene	<29		76	29	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
tert-Butylbenzene	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,1,1,2-Tetrachloroethane	<35		76	35	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
1,1,1,2,2-Tetrachloroethane	<30		76	30	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Tetrachloroethene	<28		76	28	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
Toluene	<11		19	11	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
trans-1,2-Dichloroethene	<26		76	26	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50
trans-1,3-Dichloropropene	<27		76	27	ug/Kg	✳	07/12/23 13:30	07/22/23 03:07	50

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Date Collected: 07/12/23 13:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<35		76	35	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,2,4-Trichlorobenzene	<26		76	26	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,1,1-Trichloroethane	<29		76	29	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,1,2-Trichloroethane	<27		76	27	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
Trichloroethene	<12		38	12	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
Trichlorofluoromethane	<32		76	32	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,2,3-Trichloropropane	<31		150	31	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,2,4-Trimethylbenzene	230		76	27	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
1,3,5-Trimethylbenzene	54 J		76	29	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
Vinyl chloride	<20	+	76	20	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50
Xylenes, Total	41		38	17	ug/Kg	☼	07/12/23 13:30	07/22/23 03:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	07/12/23 13:30	07/22/23 03:07	50
Dibromofluoromethane (Surr)	101		75 - 120	07/12/23 13:30	07/22/23 03:07	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 126	07/12/23 13:30	07/22/23 03:07	50
Toluene-d8 (Surr)	104		75 - 120	07/12/23 13:30	07/22/23 03:07	50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/19/23 18:21	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
Chloroform	<0.020		0.040	0.020	mg/L			07/19/23 18:21	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/19/23 18:21	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		72 - 124	07/19/23 18:21	07/19/23 18:21	20
Dibromofluoromethane (Surr)	105		75 - 120	07/19/23 18:21	07/19/23 18:21	20
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	07/19/23 18:21	07/19/23 18:21	20
Toluene-d8 (Surr)	92		75 - 120	07/19/23 18:21	07/19/23 18:21	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.10		0.10	0.10	mg/L		07/21/23 14:43	07/24/23 16:40	5
2,4-Dinitrotoluene	<0.050		0.050	0.050	mg/L		07/21/23 14:43	07/24/23 16:40	5
Hexachlorobenzene	<0.025		0.025	0.025	mg/L		07/21/23 14:43	07/24/23 16:40	5
Hexachlorobutadiene	<0.25		0.25	0.25	mg/L		07/21/23 14:43	07/24/23 16:40	5
Hexachloroethane	<0.25		0.25	0.25	mg/L		07/21/23 14:43	07/24/23 16:40	5
2-Methylphenol	<0.10		0.10	0.10	mg/L		07/21/23 14:43	07/24/23 16:40	5
3 & 4 Methylphenol	<0.10		0.10	0.10	mg/L		07/21/23 14:43	07/24/23 16:40	5
Nitrobenzene	<0.050		0.050	0.050	mg/L		07/21/23 14:43	07/24/23 16:40	5
Pentachlorophenol	<1.0		1.0	1.0	mg/L		07/21/23 14:43	07/24/23 16:40	5
Pyridine	<1.0		1.0	1.0	mg/L		07/21/23 14:43	07/24/23 16:40	5
2,4,5-Trichlorophenol	<0.50		0.50	0.50	mg/L		07/21/23 14:43	07/24/23 16:40	5

Eurofins Chicago

Client Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Date Collected: 07/12/23 13:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.25		0.25	0.25	mg/L		07/21/23 14:43	07/24/23 16:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		34 - 110				07/21/23 14:43	07/24/23 16:40	5
2-Fluorophenol (Surr)	51		27 - 110				07/21/23 14:43	07/24/23 16:40	5
Nitrobenzene-d5 (Surr)	81		36 - 120				07/21/23 14:43	07/24/23 16:40	5
Phenol-d5 (Surr)	37		20 - 100				07/21/23 14:43	07/24/23 16:40	5
Terphenyl-d14 (Surr)	94		40 - 145				07/21/23 14:43	07/24/23 16:40	5
2,4,6-Tribromophenol (Surr)	56		40 - 145				07/21/23 14:43	07/24/23 16:40	5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0065		0.017	0.0065	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1221	<0.0065		0.017	0.0065	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1254	<0.0056		0.017	0.0056	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		07/24/23 14:35	07/25/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		49 - 129				07/24/23 14:35	07/25/23 14:03	1
DCB Decachlorobiphenyl	95		37 - 121				07/24/23 14:35	07/25/23 14:03	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/19/23 16:27	07/20/23 16:39	1
Barium	0.46	J	0.50	0.050	mg/L		07/19/23 16:27	07/20/23 16:39	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		07/19/23 16:27	07/20/23 16:39	1
Chromium	<0.010		0.025	0.010	mg/L		07/19/23 16:27	07/20/23 16:39	1
Lead	<0.0075		0.050	0.0075	mg/L		07/19/23 16:27	07/20/23 16:39	1
Selenium	<0.020		0.050	0.020	mg/L		07/19/23 16:27	07/20/23 16:39	1
Silver	<0.010		0.025	0.010	mg/L		07/19/23 16:27	07/20/23 16:39	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/23 16:00	07/20/23 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.12	F2 F1 ^-	0.24	0.12	mg/Kg		07/25/23 18:00	07/26/23 17:00	1
Sulfide (SW846 9034)	<4.7		9.9	4.7	mg/Kg		07/31/23 18:10	08/01/23 16:21	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			07/19/23 16:04	1
Paint Filter (SW846 9095B)	PASS				No Unit			07/26/23 14:10	1
Total Chlorine (SW846 9251)	<0.097		0.097	0.097	%		07/18/23 13:32	07/18/23 16:31	1
Flashpoint (ASTM D92)	>201		99.0	99.0	Degrees F			07/31/23 11:00	1
Specific Gravity (SM 2710F)	2.1066				NONE			07/29/23 11:48	1

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Definitions/Glossary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

GC/MS VOA

Leach Batch: 723491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	1311	
LB 500-723491/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 723671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	8260D	723491
LB 500-723491/1-A	Method Blank	TCLP	Solid	8260D	723491
MB 500-723671/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-723671/4	Lab Control Sample	Total/NA	Solid	8260D	

Prep Batch: 723858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	5035	

Prep Batch: 723859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-723859/12-A	Method Blank	Total/NA	Solid	5035	
LCS 500-723859/13-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 724303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	8260D	723858
MB 500-724303/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-724303/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 724445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-723859/12-A	Method Blank	Total/NA	Solid	8260D	723859
MB 500-724445/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-723859/13-A	Lab Control Sample	Total/NA	Solid	8260D	723859
LCS 500-724445/3	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 723501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	1311	
LB2 500-723501/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 724282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	3510C	723501
LB2 500-723501/1-C	Method Blank	TCLP	Solid	3510C	723501
MB 500-724282/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-724282/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 724399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	8270E	724282
LB2 500-723501/1-C	Method Blank	TCLP	Solid	8270E	724282
MB 500-724282/1-A	Method Blank	Total/NA	Solid	8270E	724282

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QC Association Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

GC/MS Semi VOA (Continued)

Analysis Batch: 724399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-724282/2-A	Lab Control Sample	Total/NA	Solid	8270E	724282

GC Semi VOA

Prep Batch: 724557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	3541	
MB 500-724557/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-724557/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 724719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	8082A	724557
MB 500-724557/1-A	Method Blank	Total/NA	Solid	8082A	724557
LCS 500-724557/3-A	Lab Control Sample	Total/NA	Solid	8082A	724557

Metals

Leach Batch: 723501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	1311	
LB2 500-723501/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-723501/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 723822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	7470A	723501
LB2 500-723501/1-B	Method Blank	TCLP	Solid	7470A	723501
MB 500-723822/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-723822/27-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 723826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	3010A	723501
LB2 500-723501/2-B	Method Blank	TCLP	Solid	3010A	723501
LCS 500-723826/17-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 723950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	7470A	723822
LB2 500-723501/1-B	Method Blank	TCLP	Solid	7470A	723822
MB 500-723822/12-A	Method Blank	Total/NA	Solid	7470A	723822
LCS 500-723822/27-A	Lab Control Sample	Total/NA	Solid	7470A	723822

Analysis Batch: 724203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	TCLP	Solid	6010D	723826
LB2 500-723501/2-B	Method Blank	TCLP	Solid	6010D	723826
LCS 500-723826/17-A	Lab Control Sample	Total/NA	Solid	6010D	723826

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QC Association Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

General Chemistry

Analysis Batch: 723738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	Moisture	

Analysis Batch: 723875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9045D	
LCS 500-723875/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-723875/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 724786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9010C	
MB 500-724786/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-724786/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-236612-1 MS	WC-20230712	Total/NA	Solid	9010C	
500-236612-1 MSD	WC-20230712	Total/NA	Solid	9010C	

Analysis Batch: 724934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9095B	

Analysis Batch: 725026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9012B	724786
MB 500-724786/1-A	Method Blank	Total/NA	Solid	9012B	724786
LCS 500-724786/2-A	Lab Control Sample	Total/NA	Solid	9012B	724786
500-236612-1 MS	WC-20230712	Total/NA	Solid	9012B	724786
500-236612-1 MSD	WC-20230712	Total/NA	Solid	9012B	724786

Analysis Batch: 725466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	SM 2710F	

Analysis Batch: 725627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	D92	

Prep Batch: 725659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9030B	
MB 500-725659/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-725659/2-A	Lab Control Sample	Total/NA	Solid	9030B	
500-236612-1 MS	WC-20230712	Total/NA	Solid	9030B	
500-236612-1 MSD	WC-20230712	Total/NA	Solid	9030B	

Analysis Batch: 725875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9034	725659
MB 500-725659/1-A	Method Blank	Total/NA	Solid	9034	725659
LCS 500-725659/2-A	Lab Control Sample	Total/NA	Solid	9034	725659
500-236612-1 MS	WC-20230712	Total/NA	Solid	9034	725659
500-236612-1 MSD	WC-20230712	Total/NA	Solid	9034	725659

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QC Association Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

General Chemistry

Prep Batch: 788819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	5050	
MB 680-788819/1-A	Method Blank	Total/NA	Solid	5050	
LCS 680-788819/2-A	Lab Control Sample	Total/NA	Solid	5050	

Analysis Batch: 788872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236612-1	WC-20230712	Total/NA	Solid	9251	788819
MB 680-788819/1-A	Method Blank	Total/NA	Solid	9251	788819
LCS 680-788819/2-A	Lab Control Sample	Total/NA	Solid	9251	788819

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-236612-1	WC-20230712	93	101	94	104
LB3 500-723859/12-A	Method Blank	101	98	102	102
LCS 500-723671/4	Lab Control Sample	108	95	92	95
LCS 500-723859/13-A	Lab Control Sample	98	103	110	100
LCS 500-724303/4	Lab Control Sample	94	106	92	105
LCS 500-724445/3	Lab Control Sample	101	97	101	100
MB 500-723671/6	Method Blank	108	99	98	92
MB 500-724303/6	Method Blank	98	102	93	100
MB 500-724445/6	Method Blank	102	99	105	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-236612-1	WC-20230712	114	105	102	92
LB 500-723491/1-A	Method Blank	107	102	100	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
LCS 500-724282/2-A	Lab Control Sample	93	59	96	43	106	90
MB 500-724282/1-A	Method Blank	71	48	74	34	85	59

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
500-236612-1	WC-20230712	82	51	81	37	94	56
LB2 500-723501/1-C	Method Blank	65	42	68	29	78	55

Surrogate Legend

- FBP = 2-Fluorobiphenyl (Surr)
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHL = Terphenyl-d14 (Surr)
- TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-236612-1	WC-20230712	68	95
LCS 500-724557/3-A	Lab Control Sample	109	91
MB 500-724557/1-A	Method Blank	104	84

Surrogate Legend

- TCX = Tetrachloro-m-xylene
- DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-723671/6
Matrix: Solid
Analysis Batch: 723671

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
2-Butanone (MEK)	<0.0025		0.0050	0.0025	mg/L			07/19/23 10:20	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			07/19/23 10:20	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			07/19/23 10:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		72 - 124		07/19/23 10:20	1
Dibromofluoromethane (Surr)	99		75 - 120		07/19/23 10:20	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		07/19/23 10:20	1
Toluene-d8 (Surr)	92		75 - 120		07/19/23 10:20	1

Lab Sample ID: LCS 500-723671/4
Matrix: Solid
Analysis Batch: 723671

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.0500	0.0425		mg/L		85	70 - 120
2-Butanone (MEK)	0.0500	0.0536		mg/L		107	46 - 144
Carbon tetrachloride	0.0500	0.0440		mg/L		88	59 - 133
Chlorobenzene	0.0500	0.0433		mg/L		87	70 - 120
Chloroform	0.0500	0.0408		mg/L		82	70 - 120
1,2-Dichloroethane	0.0500	0.0424		mg/L		85	68 - 127
1,1-Dichloroethene	0.0500	0.0421		mg/L		84	67 - 122
Tetrachloroethene	0.0500	0.0385		mg/L		77	70 - 128
Trichloroethene	0.0500	0.0419		mg/L		84	70 - 125
Vinyl chloride	0.0500	0.0494		mg/L		99	64 - 126

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: LB3 500-723859/12-A
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723859

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Bromobenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Bromochloromethane	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Bromodichloromethane	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LB3 500-723859/12-A
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723859

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromoform	<24		50	24	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Bromomethane	<40		150	40	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Chlorobenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Chloroethane	<25		50	25	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Chloroform	<19		100	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Chloromethane	<16		250	16	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Dibromochloromethane	<24		50	24	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Dibromomethane	<14		50	14	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Isopropylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Isopropyl ether	<14		50	14	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Methylene Chloride	<82		250	82	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Naphthalene	<17		50	17	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
n-Butylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
N-Propylbenzene	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Styrene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Tetrachloroethene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Toluene	<7.4		13	7.4	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LB3 500-723859/12-A
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723859

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	<8.2		25	8.2	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Vinyl chloride	<13		50	13	ug/Kg		07/19/23 21:55	07/24/23 11:50	50
Xylenes, Total	<11		25	11	ug/Kg		07/19/23 21:55	07/24/23 11:50	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		72 - 124	07/19/23 21:55	07/24/23 11:50	50
Dibromofluoromethane (Surr)	98		75 - 120	07/19/23 21:55	07/24/23 11:50	50
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	07/19/23 21:55	07/24/23 11:50	50
Toluene-d8 (Surr)	102		75 - 120	07/19/23 21:55	07/24/23 11:50	50

Lab Sample ID: LCS 500-723859/13-A
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723859

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2500		ug/Kg		100	70 - 120
Bromobenzene	2500	2550		ug/Kg		102	70 - 122
Bromochloromethane	2500	2500		ug/Kg		100	65 - 122
Bromodichloromethane	2500	2660		ug/Kg		106	69 - 120
Bromoform	2500	2760		ug/Kg		110	56 - 132
Bromomethane	2500	2120		ug/Kg		85	40 - 152
Carbon tetrachloride	2500	2340		ug/Kg		94	59 - 133
Chlorobenzene	2500	2540		ug/Kg		102	70 - 120
Chloroethane	2500	2450		ug/Kg		98	48 - 136
Chloroform	2500	2640		ug/Kg		106	70 - 120
Chloromethane	2500	1650		ug/Kg		66	56 - 152
2-Chlorotoluene	2500	2520		ug/Kg		101	70 - 125
4-Chlorotoluene	2500	2570		ug/Kg		103	68 - 124
cis-1,2-Dichloroethene	2500	2500		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	2500	2740		ug/Kg		110	64 - 127
Dibromochloromethane	2500	2780		ug/Kg		111	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2800		ug/Kg		112	56 - 123
1,2-Dibromoethane	2500	2690		ug/Kg		108	70 - 125
Dibromomethane	2500	2750		ug/Kg		110	70 - 120
1,2-Dichlorobenzene	2500	2600		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	2500	2510		ug/Kg		100	70 - 125
1,4-Dichlorobenzene	2500	2540		ug/Kg		102	70 - 120
Dichlorodifluoromethane	2500	1040		ug/Kg		41	40 - 159
1,1-Dichloroethane	2500	2600		ug/Kg		104	70 - 125
1,2-Dichloroethane	2500	2870		ug/Kg		115	68 - 127
1,1-Dichloroethene	2500	2130		ug/Kg		85	67 - 122
1,2-Dichloropropane	2500	2680		ug/Kg		107	67 - 130
1,3-Dichloropropane	2500	2800		ug/Kg		112	62 - 136
2,2-Dichloropropane	2500	2200		ug/Kg		88	58 - 139

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LCS 500-723859/13-A
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723859

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloropropene	2500	2360		ug/Kg		94	70 - 121
Ethylbenzene	2500	2490		ug/Kg		100	70 - 123
Hexachlorobutadiene	2500	2280		ug/Kg		91	51 - 150
Isopropylbenzene	2500	2380		ug/Kg		95	70 - 126
Methylene Chloride	2500	2430		ug/Kg		97	69 - 125
Methyl tert-butyl ether	2500	2500		ug/Kg		100	55 - 123
Naphthalene	2500	2650		ug/Kg		106	53 - 144
n-Butylbenzene	2500	2360		ug/Kg		94	68 - 125
N-Propylbenzene	2500	2390		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2380		ug/Kg		95	70 - 125
sec-Butylbenzene	2500	2380		ug/Kg		95	70 - 123
Styrene	2500	2650		ug/Kg		106	70 - 120
tert-Butylbenzene	2500	2400		ug/Kg		96	70 - 121
1,1,1,2-Tetrachloroethane	2500	2770		ug/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	2500	2600		ug/Kg		104	62 - 140
Tetrachloroethene	2500	2290		ug/Kg		92	70 - 128
Toluene	2500	2360		ug/Kg		94	70 - 125
trans-1,2-Dichloroethene	2500	2390		ug/Kg		95	70 - 125
trans-1,3-Dichloropropene	2500	2690		ug/Kg		108	62 - 128
1,2,3-Trichlorobenzene	2500	2560		ug/Kg		102	51 - 145
1,2,4-Trichlorobenzene	2500	2490		ug/Kg		100	57 - 137
1,1,1-Trichloroethane	2500	2370		ug/Kg		95	70 - 125
1,1,2-Trichloroethane	2500	2620		ug/Kg		105	71 - 130
Trichloroethene	2500	2450		ug/Kg		98	70 - 125
Trichlorofluoromethane	2500	2270		ug/Kg		91	55 - 128
1,2,3-Trichloropropane	2500	2550		ug/Kg		102	50 - 133
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		100	70 - 123
1,3,5-Trimethylbenzene	2500	2530		ug/Kg		101	70 - 123
Vinyl chloride	2500	1820		ug/Kg		73	64 - 126
Xylenes, Total	5000	5060		ug/Kg		101	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane (Surr)	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: MB 500-724303/6
Matrix: Solid
Analysis Batch: 724303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg			07/21/23 21:54	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/21/23 21:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/21/23 21:54	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/21/23 21:54	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/21/23 21:54	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: MB 500-724303/6
Matrix: Solid
Analysis Batch: 724303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/21/23 21:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/21/23 21:54	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/21/23 21:54	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			07/21/23 21:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/21/23 21:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/21/23 21:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/21/23 21:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/21/23 21:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/21/23 21:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/21/23 21:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/21/23 21:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/21/23 21:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/21/23 21:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/21/23 21:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/21/23 21:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/21/23 21:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/21/23 21:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/21/23 21:54	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/21/23 21:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/21/23 21:54	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/23 21:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/21/23 21:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/21/23 21:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
Naphthalene	0.563	J	1.0	0.33	ug/Kg			07/21/23 21:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/21/23 21:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/23 21:54	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/21/23 21:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/23 21:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/21/23 21:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/21/23 21:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/21/23 21:54	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/21/23 21:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/21/23 21:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/21/23 21:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/21/23 21:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/21/23 21:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/21/23 21:54	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/21/23 21:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/21/23 21:54	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: MB 500-724303/6
Matrix: Solid
Analysis Batch: 724303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/21/23 21:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/21/23 21:54	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/23 21:54	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/21/23 21:54	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/21/23 21:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		72 - 124		07/21/23 21:54	1
Dibromofluoromethane (Surr)	102		75 - 120		07/21/23 21:54	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		07/21/23 21:54	1
Toluene-d8 (Surr)	100		75 - 120		07/21/23 21:54	1

Lab Sample ID: LCS 500-724303/4
Matrix: Solid
Analysis Batch: 724303

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	51.5		ug/Kg		103	70 - 120
Bromobenzene	50.0	46.1		ug/Kg		92	70 - 122
Bromochloromethane	50.0	48.7		ug/Kg		97	65 - 122
Bromodichloromethane	50.0	42.3		ug/Kg		85	69 - 120
Bromoform	50.0	47.9		ug/Kg		96	56 - 132
Bromomethane	50.0	66.8		ug/Kg		134	40 - 152
Carbon tetrachloride	50.0	49.6		ug/Kg		99	59 - 133
Chlorobenzene	50.0	46.2		ug/Kg		92	70 - 120
Chloroethane	50.0	65.2		ug/Kg		130	48 - 136
Chloroform	50.0	48.8		ug/Kg		98	70 - 120
Chloromethane	50.0	56.0		ug/Kg		112	56 - 152
2-Chlorotoluene	50.0	46.8		ug/Kg		94	70 - 125
4-Chlorotoluene	50.0	44.2		ug/Kg		88	68 - 124
cis-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	44.2		ug/Kg		88	64 - 127
Dibromochloromethane	50.0	40.8		ug/Kg		82	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.9		ug/Kg		90	56 - 123
1,2-Dibromoethane	50.0	44.1		ug/Kg		88	70 - 125
Dibromomethane	50.0	43.1		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 125
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	70 - 125
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	70 - 120
Dichlorodifluoromethane	50.0	68.8		ug/Kg		138	40 - 159
1,1-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,2-Dichloroethane	50.0	41.8		ug/Kg		84	68 - 127
1,1-Dichloroethene	50.0	54.4		ug/Kg		109	67 - 122
1,2-Dichloropropane	50.0	45.5		ug/Kg		91	67 - 130
1,3-Dichloropropane	50.0	43.9		ug/Kg		88	62 - 136
2,2-Dichloropropane	50.0	50.0		ug/Kg		100	58 - 139
1,1-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 121
Ethylbenzene	50.0	47.1		ug/Kg		94	70 - 123

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LCS 500-724303/4
Matrix: Solid
Analysis Batch: 724303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	50.0	69.5		ug/Kg		139	51 - 150
Isopropylbenzene	50.0	48.1		ug/Kg		96	70 - 126
Methylene Chloride	50.0	54.8		ug/Kg		110	69 - 125
Methyl tert-butyl ether	50.0	44.3		ug/Kg		89	55 - 123
Naphthalene	50.0	45.7		ug/Kg		91	53 - 144
n-Butylbenzene	50.0	50.2		ug/Kg		100	68 - 125
N-Propylbenzene	50.0	46.4		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	48.7		ug/Kg		97	70 - 125
sec-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 123
Styrene	50.0	46.1		ug/Kg		92	70 - 120
tert-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/Kg		90	62 - 140
Tetrachloroethene	50.0	52.7		ug/Kg		105	70 - 128
Toluene	50.0	46.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	53.7		ug/Kg		107	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/Kg		81	62 - 128
1,2,3-Trichlorobenzene	50.0	58.8		ug/Kg		118	51 - 145
1,2,4-Trichlorobenzene	50.0	59.3		ug/Kg		119	57 - 137
1,1,1-Trichloroethane	50.0	50.2		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	42.8		ug/Kg		86	71 - 130
Trichloroethene	50.0	46.9		ug/Kg		94	70 - 125
Trichlorofluoromethane	50.0	53.3		ug/Kg		107	55 - 128
1,2,3-Trichloropropane	50.0	42.8		ug/Kg		86	50 - 133
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 123
1,3,5-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 123
Vinyl chloride	50.0	66.6	+	ug/Kg		133	64 - 126
Xylenes, Total	100	100		ug/Kg		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	105		75 - 120

Lab Sample ID: MB 500-724445/6
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/24/23 11:04	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/24/23 11:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/24/23 11:04	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/24/23 11:04	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/24/23 11:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/24/23 11:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: MB 500-724445/6
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/24/23 11:04	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/24/23 11:04	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			07/24/23 11:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/24/23 11:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/24/23 11:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/24/23 11:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/24/23 11:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/24/23 11:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/24/23 11:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/24/23 11:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/24/23 11:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/24/23 11:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/24/23 11:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/24/23 11:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/24/23 11:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/24/23 11:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/24/23 11:04	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/24/23 11:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/24/23 11:04	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/24/23 11:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/24/23 11:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/24/23 11:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/24/23 11:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/24/23 11:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/24/23 11:04	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/24/23 11:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/24/23 11:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/24/23 11:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/24/23 11:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/24/23 11:04	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/24/23 11:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/24/23 11:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/24/23 11:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/24/23 11:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/24/23 11:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/24/23 11:04	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/24/23 11:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/24/23 11:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/24/23 11:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/24/23 11:04	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: MB 500-724445/6
Matrix: Solid
Analysis Batch: 724445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/24/23 11:04	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/24/23 11:04	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/24/23 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		07/24/23 11:04	1
Dibromofluoromethane (Surr)	99		75 - 120		07/24/23 11:04	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		07/24/23 11:04	1
Toluene-d8 (Surr)	97		75 - 120		07/24/23 11:04	1

Lab Sample ID: LCS 500-724445/3
Matrix: Solid
Analysis Batch: 724445

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	48.9		ug/Kg		98	70 - 120
Bromobenzene	50.0	47.3		ug/Kg		95	70 - 122
Bromochloromethane	50.0	46.9		ug/Kg		94	65 - 122
Bromodichloromethane	50.0	48.0		ug/Kg		96	69 - 120
Bromoform	50.0	50.6		ug/Kg		101	56 - 132
Bromomethane	50.0	43.5		ug/Kg		87	40 - 152
Carbon tetrachloride	50.0	52.6		ug/Kg		105	59 - 133
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
Chloroethane	50.0	45.8		ug/Kg		92	48 - 136
Chloroform	50.0	48.2		ug/Kg		96	70 - 120
Chloromethane	50.0	45.7		ug/Kg		91	56 - 152
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 125
4-Chlorotoluene	50.0	51.3		ug/Kg		103	68 - 124
cis-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	70 - 125
cis-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	64 - 127
Dibromochloromethane	50.0	50.1		ug/Kg		100	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.3		ug/Kg		99	56 - 123
1,2-Dibromoethane	50.0	48.4		ug/Kg		97	70 - 125
Dibromomethane	50.0	48.0		ug/Kg		96	70 - 120
1,2-Dichlorobenzene	50.0	50.3		ug/Kg		101	70 - 125
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 125
1,4-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 120
Dichlorodifluoromethane	50.0	53.4		ug/Kg		107	40 - 159
1,1-Dichloroethane	50.0	50.7		ug/Kg		101	70 - 125
1,2-Dichloroethane	50.0	51.4		ug/Kg		103	68 - 127
1,1-Dichloroethene	50.0	47.7		ug/Kg		95	67 - 122
1,2-Dichloropropane	50.0	48.4		ug/Kg		97	67 - 130
1,3-Dichloropropane	50.0	49.4		ug/Kg		99	62 - 136
2,2-Dichloropropane	50.0	50.9		ug/Kg		102	58 - 139
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 121
Ethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
Hexachlorobutadiene	50.0	49.7		ug/Kg		99	51 - 150
Isopropylbenzene	50.0	50.1		ug/Kg		100	70 - 126

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LCS 500-724445/3
Matrix: Solid
Analysis Batch: 724445

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	50.0	43.2		ug/Kg		86	69 - 125
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	55 - 123
Naphthalene	50.0	46.8		ug/Kg		94	53 - 144
n-Butylbenzene	50.0	52.7		ug/Kg		105	68 - 125
N-Propylbenzene	50.0	51.6		ug/Kg		103	69 - 127
p-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 123
Styrene	50.0	51.8		ug/Kg		104	70 - 120
tert-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/Kg		95	62 - 140
Tetrachloroethene	50.0	48.1		ug/Kg		96	70 - 128
Toluene	50.0	47.3		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	52.1		ug/Kg		104	62 - 128
1,2,3-Trichlorobenzene	50.0	47.9		ug/Kg		96	51 - 145
1,2,4-Trichlorobenzene	50.0	49.2		ug/Kg		98	57 - 137
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	70 - 125
1,1,2-Trichloroethane	50.0	45.8		ug/Kg		92	71 - 130
Trichloroethene	50.0	49.5		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	54.1		ug/Kg		108	55 - 128
1,2,3-Trichloropropane	50.0	48.3		ug/Kg		97	50 - 133
1,2,4-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 123
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 123
Vinyl chloride	50.0	51.4		ug/Kg		103	64 - 126
Xylenes, Total	100	100		ug/Kg		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		72 - 124
Dibromofluoromethane (Surr)	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: LB 500-723491/1-A
Matrix: Solid
Analysis Batch: 723671

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/19/23 11:08	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
Chloroform	<0.020		0.040	0.020	mg/L			07/19/23 11:08	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/19/23 11:08	20

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QC Sample Results

Client: Ramboll US Corporation
Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

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

Lab Sample ID: LB 500-723491/1-A
Matrix: Solid
Analysis Batch: 723671

Client Sample ID: Method Blank
Prep Type: TCLP

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	107		72 - 124		07/19/23 11:08	20
Dibromofluoromethane (Surr)	102		75 - 120		07/19/23 11:08	20
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		07/19/23 11:08	20
Toluene-d8 (Surr)	92		75 - 120		07/19/23 11:08	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-724282/1-A
Matrix: Solid
Analysis Batch: 724399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724282

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		07/21/23 14:43	07/24/23 12:57	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		07/21/23 14:43	07/24/23 12:57	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		07/21/23 14:43	07/24/23 12:57	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		07/21/23 14:43	07/24/23 12:57	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		07/21/23 14:43	07/24/23 12:57	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		07/21/23 14:43	07/24/23 12:57	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		07/21/23 14:43	07/24/23 12:57	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		07/21/23 14:43	07/24/23 12:57	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		07/21/23 14:43	07/24/23 12:57	1
Pyridine	<0.020		0.020	0.020	mg/L		07/21/23 14:43	07/24/23 12:57	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		07/21/23 14:43	07/24/23 12:57	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		07/21/23 14:43	07/24/23 12:57	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	71		34 - 110	07/21/23 14:43	07/24/23 12:57	1
2-Fluorophenol (Surr)	48		27 - 110	07/21/23 14:43	07/24/23 12:57	1
Nitrobenzene-d5 (Surr)	74		36 - 120	07/21/23 14:43	07/24/23 12:57	1
Phenol-d5 (Surr)	34		20 - 100	07/21/23 14:43	07/24/23 12:57	1
Terphenyl-d14 (Surr)	85		40 - 145	07/21/23 14:43	07/24/23 12:57	1
2,4,6-Tribromophenol (Surr)	59		40 - 145	07/21/23 14:43	07/24/23 12:57	1

Lab Sample ID: LCS 500-724282/2-A
Matrix: Solid
Analysis Batch: 724399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.0400	0.0454		mg/L		114	63 - 129
Hexachlorobenzene	0.0400	0.0367		mg/L		92	61 - 126
Hexachlorobutadiene	0.0400	0.0285		mg/L		71	20 - 100
Hexachloroethane	0.0400	0.0276		mg/L		69	20 - 100
2-Methylphenol	0.0400	0.0315		mg/L		79	53 - 115
3 & 4 Methylphenol	0.0400	0.0330		mg/L		83	50 - 116
Nitrobenzene	0.0400	0.0386		mg/L		97	54 - 121
Pentachlorophenol	0.0800	0.0740		mg/L		92	42 - 148
Pyridine	0.0800	<0.020		mg/L		25	15 - 110

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-724282/2-A
Matrix: Solid
Analysis Batch: 724399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	0.0400	0.0411		mg/L		103	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0422		mg/L		105	62 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	93		34 - 110
2-Fluorophenol (Surr)	59		27 - 110
Nitrobenzene-d5 (Surr)	96		36 - 120
Phenol-d5 (Surr)	43		20 - 100
Terphenyl-d14 (Surr)	106		40 - 145
2,4,6-Tribromophenol (Surr)	90		40 - 145

Lab Sample ID: LB2 500-723501/1-C
Matrix: Solid
Analysis Batch: 724399

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 724282

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/21/23 14:43	07/24/23 13:46	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/21/23 14:43	07/24/23 13:46	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/21/23 14:43	07/24/23 13:46	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/21/23 14:43	07/24/23 13:46	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/21/23 14:43	07/24/23 13:46	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/21/23 14:43	07/24/23 13:46	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/21/23 14:43	07/24/23 13:46	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/21/23 14:43	07/24/23 13:46	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/21/23 14:43	07/24/23 13:46	1
Pyridine	<0.20		0.20	0.20	mg/L		07/21/23 14:43	07/24/23 13:46	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/21/23 14:43	07/24/23 13:46	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/21/23 14:43	07/24/23 13:46	1

Surrogate	LB2 %Recovery	LB2 Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		34 - 110	07/21/23 14:43	07/24/23 13:46	1
2-Fluorophenol (Surr)	42		27 - 110	07/21/23 14:43	07/24/23 13:46	1
Nitrobenzene-d5 (Surr)	68		36 - 120	07/21/23 14:43	07/24/23 13:46	1
Phenol-d5 (Surr)	29		20 - 100	07/21/23 14:43	07/24/23 13:46	1
Terphenyl-d14 (Surr)	78		40 - 145	07/21/23 14:43	07/24/23 13:46	1
2,4,6-Tribromophenol (Surr)	55		40 - 145	07/21/23 14:43	07/24/23 13:46	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-724557/1-A
Matrix: Solid
Analysis Batch: 724719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		07/24/23 14:35	07/25/23 13:04	1

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-724557/1-A
Matrix: Solid
Analysis Batch: 724719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724557

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		07/24/23 14:35	07/25/23 13:04	1
Surrogate	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
Tetrachloro-m-xylene	104		49 - 129				07/24/23 14:35	07/25/23 13:04	1
DCB Decachlorobiphenyl	84		37 - 121				07/24/23 14:35	07/25/23 13:04	1

Lab Sample ID: LCS 500-724557/3-A
Matrix: Solid
Analysis Batch: 724719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724557

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.167	0.187		mg/Kg		112	57 - 120
PCB-1260	0.167	0.189		mg/Kg		113	61 - 125
Surrogate	LCS LCS		Limits			D	%Rec
	%Recovery	Qualifier					
Tetrachloro-m-xylene	109		49 - 129				
DCB Decachlorobiphenyl	91		37 - 121				

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-723826/17-A
Matrix: Solid
Analysis Batch: 724203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723826

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	0.100	0.0986		mg/L		99	80 - 120
Barium	0.500	0.524		mg/L		105	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Lead	0.100	0.0916		mg/L		92	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0481		mg/L		96	80 - 120

Lab Sample ID: LB2 500-723501/2-B
Matrix: Solid
Analysis Batch: 724203

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 723826

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		07/19/23 16:27	07/20/23 16:17	1
Barium	<0.050		0.50	0.050	mg/L		07/19/23 16:27	07/20/23 16:17	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/19/23 16:27	07/20/23 16:17	1
Chromium	<0.010		0.025	0.010	mg/L		07/19/23 16:27	07/20/23 16:17	1
Lead	<0.0075		0.050	0.0075	mg/L		07/19/23 16:27	07/20/23 16:17	1
Selenium	<0.020		0.050	0.020	mg/L		07/19/23 16:27	07/20/23 16:17	1
Silver	<0.010		0.025	0.010	mg/L		07/19/23 16:27	07/20/23 16:17	1

QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-723822/12-A
Matrix: Solid
Analysis Batch: 723950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 723822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/23 16:00	07/20/23 08:20	1

Lab Sample ID: LCS 500-723822/27-A
Matrix: Solid
Analysis Batch: 723950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 723822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00198		mg/L		100	80 - 120

Lab Sample ID: LB2 500-723501/1-B
Matrix: Solid
Analysis Batch: 723950

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 723822

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/23 16:00	07/20/23 09:17	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-724786/1-A
Matrix: Solid
Analysis Batch: 725026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.190	J ^-	0.24	0.12	mg/Kg		07/25/23 18:00	07/26/23 16:43	1

Lab Sample ID: LCS 500-724786/2-A
Matrix: Solid
Analysis Batch: 725026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.56	^-	mg/Kg		107	85 - 115

Lab Sample ID: 500-236612-1 MS
Matrix: Solid
Analysis Batch: 725026

Client Sample ID: WC-20230712
Prep Type: Total/NA
Prep Batch: 724786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.12	F2 F1 ^-	2.32	1.27	F1 ^-	mg/Kg		55	75 - 125

Lab Sample ID: 500-236612-1 MSD
Matrix: Solid
Analysis Batch: 725026

Client Sample ID: WC-20230712
Prep Type: Total/NA
Prep Batch: 724786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.12	F2 F1 ^-	2.26	0.898	^- F2 F1	mg/Kg		40	75 - 125	34	20

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QC Sample Results

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-725659/1-A
Matrix: Solid
Analysis Batch: 725875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		07/31/23 17:49	08/01/23 16:21	1

Lab Sample ID: LCS 500-725659/2-A
Matrix: Solid
Analysis Batch: 725875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	198	178		mg/Kg		90	80 - 120

Lab Sample ID: 500-236612-1 MS
Matrix: Solid
Analysis Batch: 725875

Client Sample ID: WC-20230712
Prep Type: Total/NA
Prep Batch: 725659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<4.7		181	154		mg/Kg		85	75 - 125

Lab Sample ID: 500-236612-1 MSD
Matrix: Solid
Analysis Batch: 725875

Client Sample ID: WC-20230712
Prep Type: Total/NA
Prep Batch: 725659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfide	<4.7		185	167		mg/Kg		90	75 - 125	8	20

Method: 9251 - Chlorine, Total

Lab Sample ID: MB 680-788819/1-A
Matrix: Solid
Analysis Batch: 788872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Chlorine	<0.020		0.020	0.020	%		07/18/23 13:32	07/18/23 16:31	1

Lab Sample ID: LCS 680-788819/2-A
Matrix: Solid
Analysis Batch: 788872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Chlorine	0.990	0.819		%		83	70 - 130

Lab Chronicle

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Date Collected: 07/12/23 13:30

Matrix: Solid

Date Received: 07/14/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			723491	LM	EET CHI	07/18/23 08:36
TCLP	Analysis	8260D		20	723671	W1T	EET CHI	07/19/23 18:21
TCLP	Leach	1311			723501	LM	EET CHI	07/18/23 13:05 - 07/19/23 05:05 ¹
TCLP	Prep	3510C			724282	EC	EET CHI	07/21/23 14:43
TCLP	Analysis	8270E		5	724399	JSB	EET CHI	07/24/23 16:40
Total/NA	Prep	3541			724557	EK	EET CHI	07/24/23 14:35 - 07/24/23 17:00 ¹
Total/NA	Analysis	8082A		1	724719	SB	EET CHI	07/25/23 14:03
TCLP	Leach	1311			723501	LM	EET CHI	07/18/23 13:05 - 07/19/23 05:05 ¹
TCLP	Prep	3010A			723826	RN	EET CHI	07/19/23 16:27 - 07/19/23 16:57 ¹
TCLP	Analysis	6010D		1	724203	FXG	EET CHI	07/20/23 16:39
TCLP	Leach	1311			723501	LM	EET CHI	07/18/23 13:05 - 07/19/23 05:05 ¹
TCLP	Prep	7470A			723822	MJG	EET CHI	07/19/23 16:00 - 07/19/23 18:00 ¹
TCLP	Analysis	7470A		1	723950	MJG	EET CHI	07/20/23 09:23
Total/NA	Prep	9010C			724786	PFK	EET CHI	07/25/23 18:00 - 07/25/23 18:00 ¹
Total/NA	Analysis	9012B		1	725026	PFK	EET CHI	07/26/23 17:00
Total/NA	Prep	9030B			725659	BC	EET CHI	07/31/23 18:10 - 07/31/23 18:14 ¹
Total/NA	Analysis	9034		1	725875	PFK	EET CHI	08/01/23 16:21
Total/NA	Analysis	9045D		1	723875	LWN	EET CHI	07/19/23 16:04
Total/NA	Analysis	9095B		1	724934	EH	EET CHI	07/26/23 14:10 - 07/26/23 14:15 ¹
Total/NA	Prep	5050			788819	SM	EET SAV	07/18/23 13:32
Total/NA	Analysis	9251		1	788872	SM	EET SAV	07/18/23 16:31
Total/NA	Analysis	D92		1	725627	PFK	EET CHI	07/31/23 11:00 - 07/31/23 11:10 ¹
Total/NA	Analysis	Moisture		1	723738	LWN	EET CHI	07/19/23 09:48
Total/NA	Analysis	SM 2710F		1	725466	KF	EET CHI	07/29/23 11:48

Client Sample ID: WC-20230712

Lab Sample ID: 500-236612-1

Date Collected: 07/12/23 13:30

Matrix: Solid

Date Received: 07/14/23 09:50

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			723858	WRE	EET CHI	07/12/23 13:30
Total/NA	Analysis	8260D		50	724303	W1T	EET CHI	07/22/23 03:07

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ramboll US Corporation
 Project/Site: Marquette AHPRC 16900

Job ID: 500-236612-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23 *
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23 *
Illinois	NELAP	200022	11-30-23
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	07-24-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	07-25-23
Wyoming	State	8TMS-L	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 19 JUL 23
ACTWGT: 51.85 LB
CAD: 0269688/CAFE3709

BILL RECIPIENT



500-236612 Waybr

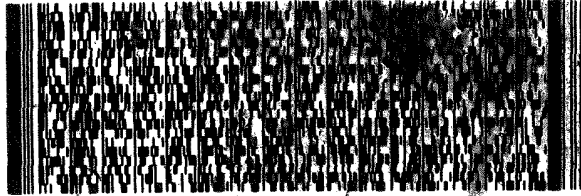
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484

(262) 202-5955
THU
PG1

REF:

DEPT:



FedEx
Express



1231 0221 102014

2 of 2

MPS# 6578 9770 9371
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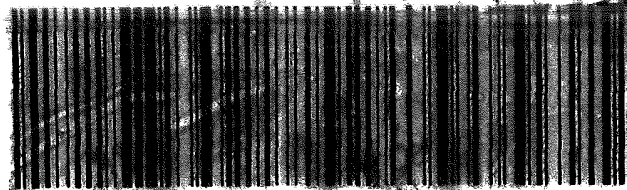
Mstr# 6578 9770 9360

0201

FRI - 14 JUL 10:30A
PRIORITY OVERNIGHT

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Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-236612-1

Login Number: 236612

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-236612-1

Login Number: 236612

List Number: 2

Creator: Watters, David

List Source: Eurofins Savannah

List Creation: 07/15/23 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	