RAMBOLL

ENVIRONMENT
& HEALTH

Sent Via E-Mail

Mr. Kevin McKnight
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
625 E CTY Y, Suite 700
Oshkosh, WI 54901-9731

Mr. Thomas R. Nordgren
Floor Space Development, LLC
3896 Big Sky Drive
Pulaski, WI 54162

NR 716.14 DATA TRANSMITTAL
BASEMENT SAMPLING RESULTS
FORMER MIRRO PLANT NO. 20 SITE
44 WALNUT STREET, MANITOWOC, WISCONSIN
BRRTS NOS. 02-08-520157 (ERP) AND 06-08-426946 (VPLE)

August 16, 2021

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Ref. 1690019558

Dear Mr. McKnight and Mr. Nordgren:

Ramboll US Consulting, Inc. (Ramboll), on behalf of Newell Operating Company (NOC), is providing the Wisconsin Department of Natural Resources (WDNR) and the current property owner with the attached analytical results from the July 2021 basement sampling activities completed at the former Mirro Plant No. 20 facility (the "facility" or "site"). The samples were collected on July 7 and 8, 2021, in accordance with the WDNR approved Site Investigation Work Plan (Work Plan) and include sump water samples, sump vapor samples, and basement trench solids (discrete and waste characterization). A draft figure showing the basement sampling locations is attached along with draft tabulated results for discrete samples (Attachment A) and the laboratory analytical reports for all samples (Attachment B). Please note that these same sump vapor samples results were previously provided to you via e-mail on July 23, 2021. The attached basement sample results will be further evaluated in the context of the results obtained during the upcoming additional investigation activities. These site investigation activities will be documented in the Wisconsin Administrative Code NR 716 Site Investigation Report planned for early 2022.

If you have any questions or require additional information, feel free to contact the undersigned or NOC representative Hudson Green (hgreen@patriotenviro.com, 610-323-4634).

Sincerely,

Ramboll US Consulting, Inc.

Susan Petrofske
Senior Managing Consultant

D 262 901 3501
spetrofske@ramboll.com

Jeanne Tarvin, PG, CPG
Managing Principal

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cc: Kristin Jones, NOC
Hudson Green, Patriot

ATTACHMENT A

TABLES AND FIGURE

Table 1. Detected Sump Water Analytical Results

Former Mirro Plant No. 20
44 Walnut Street, Chilton, WI
BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE) FID: 408021130

DRAFT

Station Name	Sample ID	Sample Date	VOC cis-1,2-Dichloroethene	VOC Tetrachloroethene	VOC trans-1,2-Dichloroethene	VOC Trichloroethene	Metal Arsenic, Total	Metal Arsenic, Dissolved	Metal Barium, Total	Metal Barium, Dissolved	Metal Lead, Total	PFAS Perfluorooctanesulfonic acid (PFOS)	PFAS Perfluorooctanoic acid (PFOA)	PFAS Perfluorobutanesulfonic acid (PFBS)	PFAS Perfluorobutanoic acid (PFBA)	PFAS Perfluorodecanoic acid (PFDA)	PFAS Perfluoroheptanesulfonic Acid (PFHpS)	PFAS Perfluoroheptanoic acid (PFHpA)	PFAS Perfluorohexanesulfonic acid (PFHxS)	PFAS Perfluorohexanoic acid (PFHxA)	PFAS Perfluorononanoic acid (PFNA)	PFAS Perfluoropentanoic acid (PFPeA)
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
*Surface Water - Human Threshold Criteria:			14,000	NS	24,000	NS	NS	NS	NS	NS	140	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
*Surface Water - Human Cancer Criteria:			NS	46	NS	539	13.3	13.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
*Proposed PFOA and PFOS Surface Water Standards:			NS	NS	NS	NS	NS	NS	NS	NS	NS	8	95	NS	NS	NS	NS	NS	NS	NS	NS	NS
EAST SUMP	EAST SUMP	07/07/2021	52	8.2	1.1	4.9	1.2	0.92 J	95	88	0.30 J	4.7	13	1.0 J	2.8 J	0.31 J	<0.17	0.58 J	3.6	1.3 J	<0.24	0.97 J
LARGE SUMP	LARGE SUMP	07/07/2021	8.2	0.74 J	<0.35	<0.16	1.5	0.95 J	73	69	<0.19	14	2.5	1.3 J	2.0 J	0.29 J	0.20 J	0.21 J	1.6 J	0.61 J	<0.23	0.42 J
WEST SUMP	WEST SUMP	07/07/2021	<0.41	<0.37	<0.35	<0.16	0.79 J	0.28 J	28	24	0.29 J	37	2.8	0.83 J	4.1 J	0.54 J	0.45 J	0.77 J	1.5 J	4.4	0.49 J	2.8
Field Blank	FB-01	07/07/2021	--	--	--	--	--	--	--	--	--	<0.46	<0.72	<0.17	<2.0	<0.26	<0.16	<0.21	<0.49	<0.49	<0.23	<0.42
Trip Blank	TRIP BLANK	07/07/2021	<0.41	<0.37	<0.35	<0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Number of Samples Analyzed:			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detections:			2	2	1	1	3	3	3	3	2	3	3	3	3	3	2	3	3	3	1	3
Min:			8.2	0.74	1.1	4.9	0.79	0.28	28	24	0.29	4.70	2.5	0.83	2	0.29	0.20	0.21	1.5	0.61	0.49	0.42
Max:			52	8.2	1.1	4.9	1.5	0.95	95	88	0.3	37	13	1.3	4.1	0.54	0.45	0.77	3.6	4.4	0.49	2.8

[O:CMD 7/26/21, C:LDH 8/4/21]

Notes:
Samples analyzed for VOCs, PAHs, RCRA Metals, and PFAS. Only detected compounds are shown.

Gray Text analyte not detected
Statistics exclude the quality control samples (Field and Trip Blanks)
Lab comments and definitions can be found in associated laboratory reports.

*Screening Levels:

Surface Water Criteria derived from Wisconsin Administrative Code (NR 105.08-09) Non-Public Water Supply: Warm Water Forage, Limited Forage, and Warm Water Sport Fish Communities

The PFOS and PFOA Standards are proposed in the July 2021 Draft titled, "ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD AMENDING AND CREATING RULES" published on July 12, 2021.

Results & Flags:
-- = Analysis not performed
< = Concentration is less than reported limit
J = Estimated concentration

Acronyms:
µg/L = micrograms per liter
BRRTS = Bureau for Remediation and Redevelopment Tracking System
ERP = Environmental Repair Program
FB = Field Blank
FID = facility identification number
ng/L = nanograms per liter
NS = No Standard
PFAS = per- and polyfluoroalkyl substances
USEPA = U.S. Environmental Protection Agency
VOC = Volatile Organic Compound
VPLE = Voluntary Party Liability Exemption
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin

Table 2. Detected Basement Trench Solids Analytical Results

Former Mirro Plant No. 20
44 Walnut Street, Chilton, WI
BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE) FID: 408021130

DRAFT

Station Name	Sample ID	Sample Date	VOC	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS
			Xylenes, Total	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Arsenic, Total	Barium, Total	Cadmium, Total	Chromium, Total	Lead, Total	Mercury, Total	Selenium, Total	Silver, Total	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	NEtFOSAA	Perfluorobutanoic acid (PFBA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanesulfonamide (FOSA)	Perfluoropentanoic acid (PFPeA)
	Reporting Units:		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
PRE EAST SUMP	PRE EAST SUMP	07/07/2021	<0.025	<0.220	<0.310	<0.350	<0.520	<0.480	<0.440	<0.300	<0.420	<0.230	<0.320	5.4	530	8.6 B	670	2,600	0.120	<0.92	2.6 JB	0.82	4.3	0.99 J	0.096 J	0.22 J	<0.034	0.048 J	0.059 J	0.12 J	<0.13	<0.12
PRE LARGE SUMP	PRE LARGE SUMP	07/07/2021	<0.078	<0.054	<0.077	<0.086	<0.130	<0.120	<0.110	<0.074	<0.100	<0.056	<0.079	61	1,500	1.3 B	120	72	0.120	7.7	6.9 JB	0.85 J	0.77 J	<1.5	0.35 J	<0.16	<0.088	<0.12	<0.12	0.37 J	<0.33	0.40 J
PRE WEST SUMP	PRE WEST SUMP	07/07/2021	0.720	0.530 J	1.000 J	2.400	0.650 J	0.580 J	1.400 J	2.300	0.680 J	1.100 J	1.800 J	16	530	15 B	160	82	0.095	2.7	4.1 J	0.87 J	0.31 J	<0.70	<0.053	<0.074	0.046 J	<0.055	<0.059	<0.080	0.33 J	<0.15
TS-01	TS-01	07/08/2021	<0.013	<0.0050	<0.0071	<0.0080	<0.012	<0.011	<0.010	<0.0068	<0.0096	<0.0051	<0.0073	0.44 J	17	0.098 JB	5.6	9.5	<0.0056	<0.58	<0.13	<0.22	0.16 J	<0.41	<0.031	<0.043	<0.024	<0.032	<0.034	0.046 J	<0.090	<0.085
TRIP BLANK	TRIP BLANK	07/07/2021	<0.011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Number of Samples Analyzed:			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detections:			1	1	1	1	1	1	1	1	1	1	1	4	4	4	4	4	3	2	3	3	4	1	2	1	1	1	1	3	1	1
Min:			0.72	0.53	1.00	2.4	0.65	0.58	1.40	2.30	0.68	1.10	1.80	0.44	17	0.098	5.6	9.5	0.095	2.7	2.6	0.82	0.16	0.99	0.096	0.22	0.046	0.048	0.059	0.046	0.33	0.4
Max:			0.72	0.53	1.00	2.4	0.65	0.58	1.40	2.30	0.68	1.10	1.80	61	1,500	15	670	2,600	0.12	7.7	6.9	0.87	4.3	0.99	0.35	0.22	0.046	0.048	0.059	0.37	0.33	0.4

[O:CMD 7/26/21, C:LDH 8/4/21]

Notes:
Samples analyzed for VOCs, PAHs, RCRA Metals, and PFAS. Only detected compounds are shown.

Gray Text analyte not detected
Statistics exclude the quality control samples (Trip Blanks)
Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Results & Flags:
-- = Analysis not performed
< = Concentration is less than reported limit
B = analyte was detected in the associated method blank.
J = Estimated Concentration

Acronyms:
µg/kg = micrograms per kilogram
BRRTS = Bureau for Remediation and Redevelopment Tracking System
ERP = Environmental Repair Program
FID = facility identification number
mg/kg = milligrams per kilogram
PAH = Polycyclic Aromatic Hydrocarbon
PFAS = Per- and polyfluoroalkyl substances
VOC = Volatile Organic Compound
VPLE = Voluntary Party Liability Exemption
WI = Wisconsin

Table 3. Sump Vapor Analytical Results

Former Mirro Plant No. 20
44 Walnut Street, Chilton, WI
BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE) FID: 408021130

DRAFT

Sample Location	Sample Type	Sample Date	PVOC Benzene	PVOC Ethylbenzene	PVOC Toluene	PVOC Xylene, o	PVOC Xylenes, m + p	PVOC Xylenes, Total	PVOC 1,2,4-Trimethylbenzene	PVOC 1,3,5-Trimethylbenzene	PVOC Methyl-tert-butyl-ether	PVOC Naphthalene	CVOC 1,1,1-Trichloroethane	CVOC 1,1-Dichloroethene	CVOC 1,2-Dichloroethane	CVOC cis-1,2-Dichloroethene	CVOC Tetrachloroethene	CVOC trans-1,2-Dichloroethene	CVOC Trichloroethene	CVOC Vinyl Chloride
		Reporting Units:	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
		VRSL Large Commercial/Industrial:	**1,600**	**4,900**	**2,200,000**	**44,000**	**44,000**	**44,000**	**26,000**	**26,000**	**47,000**	**360**	**2,200,000**	**88,000**	**470**	**NS**	**18,000**	**NS**	**880**	**2,800**
		VAL Large Commercial/Industrial:	16	49	22,000	440	440	440	260	260	470	3.6	22,000	880	4.7	NS	180	NS	8.8	28
EAST SUMP	Sump Vapor	07/08/2021	0.93	<0.46	2.5	0.61 J	2.6 J	3.2 J	1.4 J	0.63 J	<0.19	4.4	17.3	62.1	0.65 J	7,760	3,150	287	1,470	385
WEST SUMP	Sump Vapor	07/08/2021	<0.18	<0.49	2.2	0.74 J	2.9	3.6 J	2.0	0.71 J	<0.20	4.6	6.1	<0.22	<0.31	0.98 J	1.5	<0.27	0.43 J	<0.14
EAST SUMP CERT#2767	QA/QC	07/13/2021	<0.057	<0.15	<0.12	<0.14	<0.32	<0.32	<0.18	<0.14	<0.063	<1.1	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
WEST SUMP CERT#0842	QA/QC	07/13/2021	<0.057	<0.15	<0.12	<0.14	<0.32	<0.32	<0.18	<0.14	<0.063	<1.1	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043

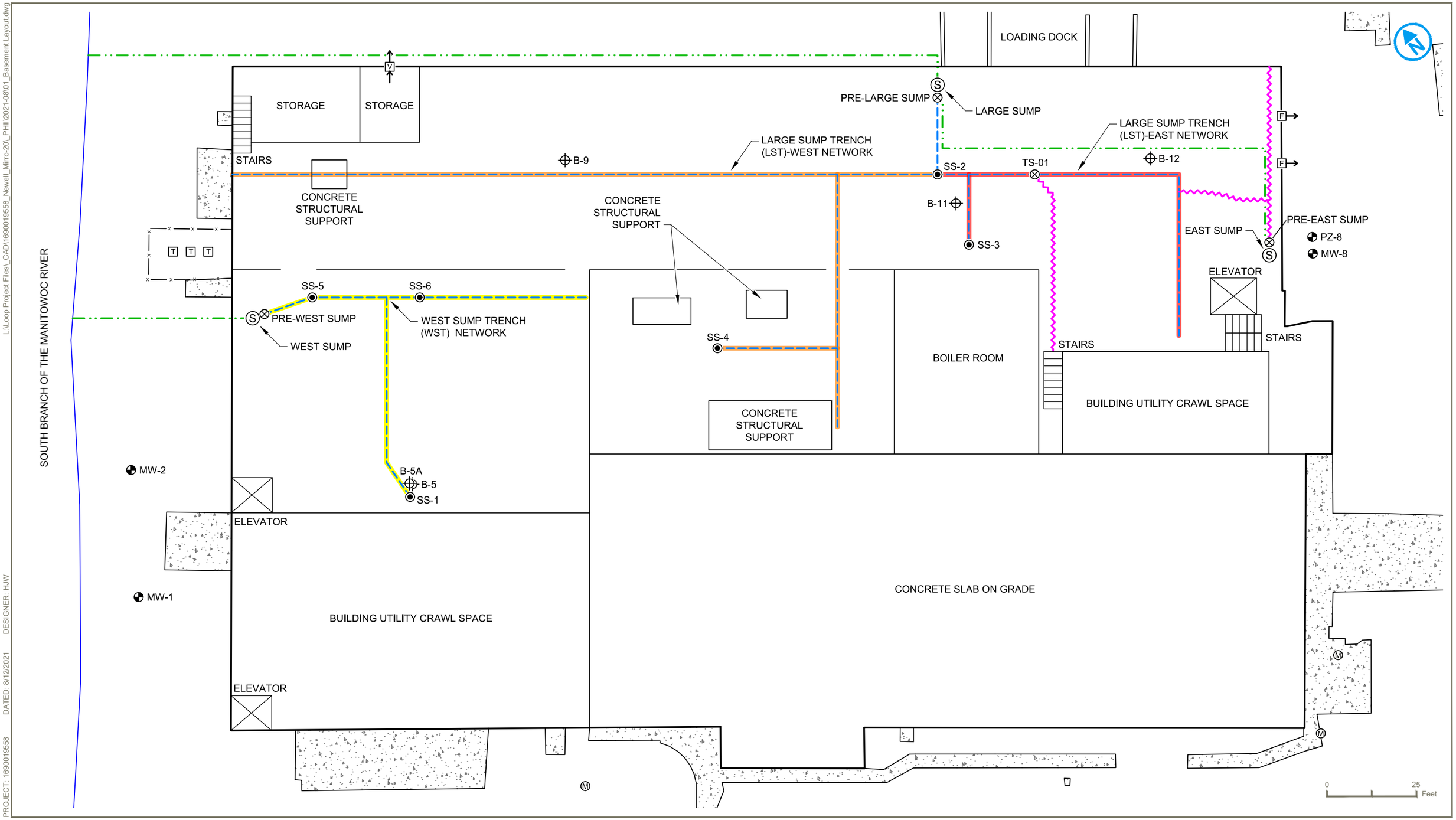
[O:MGP 7/21/21, C: LDH 7/21/2021, U:MGP 8/11/21, C:CMD 8/12/21]

Notes:
Sump vapor samples were collected from basement sumps sealed with plastic sheeting for 18-hours prior to sample collection. These sump vapor samples are not considered representative of indoor air or sub-slab conditions within the basement.
The Sub-Slab VRSL and Indoor Air VAL are, thus, provided here as points of reference, only.
Gray Text analyte not detected
Lab comments and definitions can be found in associated laboratory reports.

Results & Flags:
< = Concentration was not detected above the reported limit
J = Estimated concentration

Acronyms:
µg/m³ = micrograms per cubic meter
BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))
CVOC = Chlorinated Volatile Organic Compound
EPA = Environmental Protection Agency
ERP = Environmental Repair Program
FID = facility identification number
NS = No Standard
PVOC = Petroleum Volatile Organic Compound
QA/QC = quality assurance and quality control
VAL = Vapor Action Level for indoor air
VPLE = Voluntary Party Liability Exemption
VRSL = Vapor Risk Screening Level (= VAL/Attenuation Factor) for subsurface samples
WI = Wisconsin

Screening Levels:
VALs and VRSLs based on U.S.EPA Regional Screening Level Tables; see http://dnr.wi.gov/topic/brownfields/vapor.html for more details.



PROJECT: 1690019558 DATED: 8/12/2021 DESIGNER: HJW

L:\Loop Project Files_CAD\1690019558_Newell_Mirro-20_PHII\2021-08\01_Basement Layout.dwg

LEGEND

- CHAIN LINK FENCE
- CONCRETE AREA
- SUMP PIT
- MANHOLE
- TRANSFORMER
- GROUNDWATER MONITORING WELL
- ORIGINAL TRENCH NETWORK
- POST-2002 FLOOR SAWCUTS
- STANTEC TRENCH SOLID SAMPLE
- RAMBOLL TRENCH SOLID SAMPLE
- TEMPORARY MONITORING WELL
- FAN
- WALL VENT
- SUMP DISCHARGE LINE

NOTE
LOCATIONS OF INTERIOR BUILDING FEATURES AND HISTORIC INTERIOR SAMPLE LOCATIONS ARE APPROXIMATE.

BASEMENT LAYOUT AND SAMPLING LOCATIONS

NEWELL OPERATING COMPANY
FORMER MIRRO PLANT NO. 20
44 WALNUT STREET
CHILTON, WISCONSIN

FIGURE 1

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

DRAFT

RAMBOLL

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202086-1
Client Project/Site: Former Mirro 20 - Chilton 1690019558
Revision: 1

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

Attn: Duncan Glasford

Sandra Fredrick

Authorized for release by:
8/9/2021 9:04:56 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Job ID: 500-202086-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-202086-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 9:30 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 2.1º C and 2.2º C.

Receipt Exceptions
Client wanted additional analysis reported together.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 500-609910 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-608761, 500-608761, 500-608761, 500-608761 and 500-608761 and analytical batch 500-609909 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. 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 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-609019 and analytical batch 500-609090 recovered outside control limits for the following analytes: Multi Analytes.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-609312 was outside the method criteria for the following analyte(s): Nitrobenzene-d5. 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 8270D: The following sample contained one base surrogate outside acceptance limits: PRE EAST SUMP (500-202086-5). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-610178 was outside the method criteria for the following analyte(s): Nitrobenzene-d5. 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 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples were outside of acceptance limits: PRE EAST SUMP (500-202086-5) and TS-01 (500-202086-8). Target analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: PRE EAST SUMP (500-202086-5) and PRE WEST SUMP (500-202086-7). 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: The continuing calibration verification (CCV) associated with batch 500-609160 recovered above the upper control limit for DCB Decachlorobiphenyl and PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the

Job ID: 500-202086-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

data have been reported. The associated samples are impacted: EAST SUMP (500-202086-1), LARGE SUMP (500-202086-2), WEST SUMP (500-202086-3) and (CCVIS 500-609160/2).

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: PRE EAST SUMP (500-202086-5), PRE WEST SUMP (500-202086-7) and (CCVIS 500-610307/2). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: PRE EAST SUMP (500-202086-5) and PRE WEST SUMP (500-202086-7). Elevated reporting limits (RLs) are provided.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside the upper control limit: PRE EAST SUMP (500-202086-5) and PRE WEST SUMP (500-202086-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

LCMS
Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-506020 and analytical batch 320-507446 recovered outside control limits for the following analytes: Perfluorododecanesulfonic acid (PFDoS).

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. EAST SUMP (500-202086-1) and LARGE SUMP (500-202086-2)

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported values may have some high bias. However, analyst judgment was used to positively identify the analytes. PRE WEST SUMP (500-202086-7)

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value(may have some high bias. However, analyst judgment was used to positively identify the analyte. (CCB 320-507466/1)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: WEST SUMP (500-202086-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. Samples were re-analyzed with concurring results; therefore, data have been reported.

Method 537 (modified): The continuing calibration verification (CCV) associated with batch 320-508989 recovered above the upper control limit for Perfluorotetradecanoic acid (PFTeA). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 320-508989/3).

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-506020. Method: 3535_PFC_28D-W Matrix: Aqueous

Method 3535: The following sample was light yellow prior to extraction WEST SUMP (500-202086-3): preparation batch 320-506020 Method: 3535_PFC_28D-W Matrix: Aqueous

Method 3535: The following sample was light yellow and contained sediment prior to extraction LARGE SUMP (500-202086-2): preparation batch 320-506020 Method: 3535_PFC_28D-W Matrix: Aqueous

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

Job ID: 500-202086-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Narrative

Job Narrative
500-202086-2

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 9:30 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 2.1º C and 2.2º C.

Metals
Method 7470A: The following samples were prepared outside of preparation holding times for Hg due to the request for the test being added after the hold time had already expired. EAST SUMP (500-202086-1), LARGE SUMP (500-202086-2) and WEST SUMP (500-202086-3).

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

Narrative

Job Narrative
500-202086-3

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 9:30 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 2.1º C and 2.2º C.

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

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

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: EAST SUMP — Lab Sample ID: 500-202086-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	52		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	8.2		1.0	0.37	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	4.9		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	2.8	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.97	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.58	J I	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.7		1.8	0.48	ng/L	1		537 (modified)	Total/NA
Arsenic	1.2		1.0	0.23	ug/L	1		6020A	Total Recoverable
Barium	95		2.5	0.73	ug/L	1		6020A	Total Recoverable
Lead	0.30	J	0.50	0.19	ug/L	1		6020A	Total Recoverable
Arsenic	0.92	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	88		2.5	0.73	ug/L	1		6020A	Dissolved

Client Sample ID: LARGE SUMP — Lab Sample ID: 500-202086-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.2		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.74	J	1.0	0.37	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	2.0	J	4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.42	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.61	J I	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.21	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.29	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.20	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	14		1.7	0.46	ng/L	1		537 (modified)	Total/NA
Arsenic	1.5		1.0	0.23	ug/L	1		6020A	Total Recoverable
Barium	73		2.5	0.73	ug/L	1		6020A	Total Recoverable
Arsenic	0.95	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	69		2.5	0.73	ug/L	1		6020A	Dissolved

Client Sample ID: WEST SUMP — Lab Sample ID: 500-202086-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.4		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.77	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.8		1.8	0.75	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WEST SUMP (Continued) — Lab Sample ID: 500-202086-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.49	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.54	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.83	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.45	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	37		1.8	0.48	ng/L	1		537 (modified)	Total/NA
Arsenic	0.79	J	1.0	0.23	ug/L	1		6020A	Total Recoverable
Barium	28		2.5	0.73	ug/L	1		6020A	Total Recoverable
Lead	0.29	J	0.50	0.19	ug/L	1		6020A	Total Recoverable
Arsenic	0.28	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	24		2.5	0.73	ug/L	1		6020A	Dissolved

Client Sample ID: FB-01 — Lab Sample ID: 500-202086-4

No Detections.

Client Sample ID: PRE EAST SUMP — Lab Sample ID: 500-202086-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.096	J	0.31	0.044	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.12	J	0.31	0.065	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.048	J	0.31	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.3		0.31	0.13	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.059	J	0.31	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.82		0.78	0.31	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.22	J	0.31	0.061	ug/Kg	1	☼	537 (modified)	Total/NA
NEtFOSAA	0.99	J	3.1	0.58	ug/Kg	1	☼	537 (modified)	Total/NA
Arsenic	5.4		1.6	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	530		1.6	0.18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	8.6	B	0.31	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	670		7.8	3.9	mg/Kg	5	☼	6010B	Total/NA
Lead	2600		0.78	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	2.6	J B	3.9	1.0	mg/Kg	5	☼	6010B	Total/NA
Mercury	120		24	8.1	ug/Kg	1	☼	7471B	Total/NA

Client Sample ID: PRE LARGE SUMP — Lab Sample ID: 500-202086-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.35	J	0.80	0.11	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.40	J	0.80	0.31	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.37	J	0.80	0.17	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.77	J	0.80	0.34	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.85	J	2.0	0.80	ug/Kg	1	☼	537 (modified)	Total/NA
Arsenic	61		4.2	1.4	mg/Kg	1	☼	6010B	Total/NA
Barium	1500		4.2	0.48	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.3	B	0.84	0.15	mg/Kg	1	☼	6010B	Total/NA
Chromium	120		4.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Lead	72		2.1	0.97	mg/Kg	1	☼	6010B	Total/NA
Selenium	7.7		4.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Silver	6.9	J B	10	2.7	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE LARGE SUMP (Continued) — Lab Sample ID: 500-202086-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	120		64	21	ug/Kg	1	☼	7471B	Total/NA

Client Sample ID: PRE WEST SUMP — Lab Sample ID: 500-202086-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	720		72	32	ug/Kg	50	☼	8260B	Total/NA
Benzo[a]anthracene	530	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1000	J	1900	360	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	2400		1900	400	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	650	J	1900	600	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	580	J	1900	550	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1400	J	1900	510	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	2300		1900	350	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	680	J	1900	480	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1100	J	1900	260	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1800	J	1900	370	ug/Kg	10	☼	8270D	Total/NA
Perfluorooctanoic acid (PFOA)	0.31	J	0.38	0.16	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.046	J	0.38	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.87	J I	0.95	0.38	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.33	J	0.38	0.16	ug/Kg	1	☼	537 (modified)	Total/NA
Arsenic	16		9.5	3.3	mg/Kg	5	☼	6010B	Total/NA
Barium	530		1.9	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	15	B	0.38	0.069	mg/Kg	1	☼	6010B	Total/NA
Chromium	160		1.9	0.94	mg/Kg	1	☼	6010B	Total/NA
Lead	82		4.8	2.2	mg/Kg	5	☼	6010B	Total/NA
Selenium	2.7		1.9	1.1	mg/Kg	1	☼	6010B	Total/NA
Silver	4.1	J	4.8	1.2	mg/Kg	5	☼	6010B	Total/NA
Mercury	95		29	9.6	ug/Kg	1	☼	7471B	Total/NA

Client Sample ID: TS-01 — Lab Sample ID: 500-202086-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.046	J	0.22	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.16	J	0.22	0.095	ug/Kg	1	☼	537 (modified)	Total/NA
Arsenic	0.44	J	0.99	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	17		0.99	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.098	J B	0.20	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.6		0.99	0.49	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-202086-9

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-202086-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

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:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202086-1	EAST SUMP	Water	07/07/21 10:45	07/09/21 09:30
500-202086-2	LARGE SUMP	Water	07/07/21 11:20	07/09/21 09:30
500-202086-3	WEST SUMP	Water	07/07/21 11:45	07/09/21 09:30
500-202086-4	FB-01	Water	07/07/21 12:00	07/09/21 09:30
500-202086-5	PRE EAST SUMP	Solid	07/07/21 12:15	07/09/21 09:30
500-202086-6	PRE LARGE SUMP	Solid	07/07/21 12:30	07/09/21 09:30
500-202086-7	PRE WEST SUMP	Solid	07/07/21 12:45	07/09/21 09:30
500-202086-8	TS-01	Solid	07/08/21 08:20	07/09/21 09:30
500-202086-9	TRIP BLANK	Water	07/07/21 00:00	07/09/21 09:30
500-202086-10	TRIP BLANK	Solid	07/07/21 00:00	07/09/21 09:30

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: EAST SUMP
Lab Sample ID: 500-202086-1
Date Collected: 07/07/21 10:45
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/19/21 16:15	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/19/21 16:15	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/19/21 16:15	1
Bromoform	<0.48		1.0	0.48	ug/L			07/19/21 16:15	1
Bromomethane	<0.80	*+	3.0	0.80	ug/L			07/19/21 16:15	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			07/19/21 16:15	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/19/21 16:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
Chloroethane	<0.51	*+	1.0	0.51	ug/L			07/19/21 16:15	1
Chloroform	<0.37		2.0	0.37	ug/L			07/19/21 16:15	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/19/21 16:15	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/19/21 16:15	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/19/21 16:15	1
cis-1,2-Dichloroethene	**52**		1.0	0.41	ug/L			07/19/21 16:15	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/19/21 16:15	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/19/21 16:15	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/19/21 16:15	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/19/21 16:15	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/19/21 16:15	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:15	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/19/21 16:15	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/19/21 16:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/19/21 16:15	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/19/21 16:15	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/19/21 16:15	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/19/21 16:15	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/19/21 16:15	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/19/21 16:15	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/19/21 16:15	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/19/21 16:15	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/19/21 16:15	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:15	1
Styrene	<0.39		1.0	0.39	ug/L			07/19/21 16:15	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:15	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/19/21 16:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/19/21 16:15	1
Tetrachloroethene	**8.2**		1.0	0.37	ug/L			07/19/21 16:15	1
Toluene	<0.15		0.50	0.15	ug/L			07/19/21 16:15	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.35	ug/L			07/19/21 16:15	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: EAST SUMP
Lab Sample ID: 500-202086-1
Date Collected: 07/07/21 10:45
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/19/21 16:15	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/19/21 16:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/19/21 16:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/19/21 16:15	1
Trichloroethene	**4.9**		0.50	0.16	ug/L			07/19/21 16:15	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/19/21 16:15	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/19/21 16:15	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:15	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/19/21 16:15	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/19/21 16:15	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/19/21 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*07/19/21 16:15*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*07/19/21 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*07/19/21 16:15*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/19/21 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 10:56	1
Acenaphthylene	<0.20		0.77	0.20	ug/L		07/13/21 06:29	07/14/21 10:56	1
Anthracene	<0.26		0.77	0.26	ug/L		07/13/21 06:29	07/14/21 10:56	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		07/13/21 06:29	07/14/21 10:56	1
Benzo[a]pyrene	<0.076		0.15	0.076	ug/L		07/13/21 06:29	07/14/21 10:56	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		07/13/21 06:29	07/14/21 10:56	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		07/13/21 06:29	07/14/21 10:56	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		07/13/21 06:29	07/14/21 10:56	1
Chrysene	<0.052		0.15	0.052	ug/L		07/13/21 06:29	07/14/21 10:56	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		07/13/21 06:29	07/14/21 10:56	1
Fluoranthene	<0.35		0.77	0.35	ug/L		07/13/21 06:29	07/14/21 10:56	1
Fluorene	<0.19		0.77	0.19	ug/L		07/13/21 06:29	07/14/21 10:56	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		07/13/21 06:29	07/14/21 10:56	1
Naphthalene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 10:56	1
Phenanthrene	<0.23		0.77	0.23	ug/L		07/13/21 06:29	07/14/21 10:56	1
Pyrene	<0.33		0.77	0.33	ug/L		07/13/21 06:29	07/14/21 10:56	1
1-Methylnaphthalene	<0.23	*1	1.5	0.23	ug/L		07/13/21 06:29	07/14/21 10:56	1
2-Methylnaphthalene	<0.050	*1	1.5	0.050	ug/L		07/13/21 06:29	07/14/21 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*36 - 120*	*07/13/21 06:29*	*07/14/21 10:56*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*07/13/21 06:29*	*07/14/21 10:56*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 110*	*07/13/21 06:29*	*07/14/21 10:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.37	0.063	ug/L		07/12/21 10:42	07/13/21 15:02	1
PCB-1221	<0.19		0.37	0.19	ug/L		07/12/21 10:42	07/13/21 15:02	1
PCB-1232	<0.19		0.37	0.19	ug/L		07/12/21 10:42	07/13/21 15:02	1

Client: Ramboll US Corporation
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Client Sample ID: EAST SUMP
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Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.19		0.37	0.19	ug/L		07/12/21 10:42	07/13/21 15:02	1
PCB-1248	<0.19		0.37	0.19	ug/L		07/12/21 10:42	07/13/21 15:02	1
PCB-1254	<0.19		0.37	0.19	ug/L		07/12/21 10:42	07/13/21 15:02	1
PCB-1260	<0.065		0.37	0.065	ug/L		07/12/21 10:42	07/13/21 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 120*	*07/12/21 10:42*	*07/13/21 15:02*	*1*
DCB Decachlorobiphenyl	*102*		*30 - 140*	*07/12/21 10:42*	*07/13/21 15:02*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.8**	**J**	4.4	2.1	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluoropentanoic acid (PFPeA)	**0.97**	**J**	1.8	0.43	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorohexanoic acid (PFHxA)	**1.3**	**J**	1.8	0.51	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluoroheptanoic acid (PFHpA)	**0.58**	**J I**	1.8	0.22	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorooctanoic acid (PFOA)	**13**		1.8	0.75	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorodecanoic acid (PFDA)	**0.31**	**J**	1.8	0.27	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorobutanesulfonic acid (PFBS)	**1.0**	**J**	1.8	0.18	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.8	0.50	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorooctanesulfonic acid (PFOS)	**4.7**		1.8	0.48	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86	*1	1.8	0.86	ng/L		07/13/21 04:51	07/16/21 14:42	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/13/21 04:51	07/16/21 14:42	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/13/21 04:51	07/16/21 14:42	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/13/21 04:51	07/16/21 14:42	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/13/21 04:51	07/16/21 14:42	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/13/21 04:51	07/16/21 14:42	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/13/21 04:51	07/16/21 14:42	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/13/21 04:51	07/16/21 14:42	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/13/21 04:51	07/16/21 14:42	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/13/21 04:51	07/16/21 14:42	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/13/21 04:51	07/16/21 14:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/13/21 04:51	07/16/21 14:42	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/13/21 04:51	07/16/21 14:42	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/13/21 04:51	07/16/21 14:42	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/13/21 04:51	07/16/21 14:42	1

Client Sample ID: EAST SUMP
Lab Sample ID: 500-202086-1

Date Collected: 07/07/21 10:45
Matrix: Water

Date Received: 07/09/21 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C5 PFPeA	90		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 PFHxA	95		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C4 PFHpA	94		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C4 PFOA	98		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C5 PFNA	96		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 PFDA	92		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 PFUnA	91		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 PFDoA	79		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 PFTeDA	81		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C3 PFBS	108		25 - 150	07/13/21 04:51	07/16/21 14:42	1
18O2 PFHxS	93		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C4 PFOS	91		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C8 FOSA	98		10 - 150	07/13/21 04:51	07/16/21 14:42	1
d3-NMeFOSAA	74		25 - 150	07/13/21 04:51	07/16/21 14:42	1
d5-NEtFOSAA	86		25 - 150	07/13/21 04:51	07/16/21 14:42	1
d-N-MeFOSA-M	81		10 - 150	07/13/21 04:51	07/16/21 14:42	1
d-N-EtFOSA-M	75		10 - 150	07/13/21 04:51	07/16/21 14:42	1
d7-N-MeFOSE-M	74		10 - 150	07/13/21 04:51	07/16/21 14:42	1
d9-N-EtFOSE-M	71		10 - 150	07/13/21 04:51	07/16/21 14:42	1
M2-4:2 FTS	122		25 - 150	07/13/21 04:51	07/16/21 14:42	1
M2-6:2 FTS	136		25 - 150	07/13/21 04:51	07/16/21 14:42	1
M2-8:2 FTS	114		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C3 HFPO-DA	93		25 - 150	07/13/21 04:51	07/16/21 14:42	1
13C2 10:2 FTS	102		25 - 150	07/13/21 04:51	07/16/21 14:42	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		1.0	0.23	ug/L		08/04/21 07:41	08/05/21 15:01	1
Barium	**95**		2.5	0.73	ug/L		08/04/21 07:41	08/05/21 15:01	1
Cadmium	<0.17		0.50	0.17	ug/L		08/04/21 07:41	08/05/21 15:01	1
Chromium	<1.1		5.0	1.1	ug/L		08/04/21 07:41	08/05/21 15:01	1
Lead	**0.30**	**J**	0.50	0.19	ug/L		08/04/21 07:41	08/05/21 15:01	1
Selenium	<0.98		2.5	0.98	ug/L		08/04/21 07:41	08/05/21 15:01	1
Silver	<0.12		0.50	0.12	ug/L		08/04/21 07:41	08/05/21 15:01	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.92**	**J**	1.0	0.23	ug/L		07/13/21 08:27	07/13/21 18:55	1
Barium	**88**		2.5	0.73	ug/L		07/13/21 08:27	07/13/21 18:55	1
Cadmium	<0.17		0.50	0.17	ug/L		07/13/21 08:27	07/13/21 18:55	1
Chromium	<1.1		5.0	1.1	ug/L		07/13/21 08:27	07/13/21 18:55	1
Lead	<0.19		0.50	0.19	ug/L		07/13/21 08:27	07/13/21 18:55	1
Selenium	<0.98		2.5	0.98	ug/L		07/13/21 08:27	07/13/21 18:55	1
Silver	<0.12		0.50	0.12	ug/L		07/13/21 08:27	07/13/21 18:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098	H	0.20	0.098	ug/L		08/04/21 09:40	08/05/21 07:57	1

Client Sample Results

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: EAST SUMP
Lab Sample ID: 500-202086-1
Date Collected: 07/07/21 10:45
Matrix: Water
Date Received: 07/09/21 09:30

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		07/12/21 09:20	07/13/21 08:39	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LARGE SUMP
Lab Sample ID: 500-202086-2
Date Collected: 07/07/21 11:20
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/19/21 16:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/19/21 16:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/19/21 16:42	1
Bromoform	<0.48		1.0	0.48	ug/L			07/19/21 16:42	1
Bromomethane	<0.80	*+	3.0	0.80	ug/L			07/19/21 16:42	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			07/19/21 16:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/19/21 16:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
Chloroethane	<0.51	*+	1.0	0.51	ug/L			07/19/21 16:42	1
Chloroform	<0.37		2.0	0.37	ug/L			07/19/21 16:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/19/21 16:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/19/21 16:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/19/21 16:42	1
cis-1,2-Dichloroethene	**8.2**		1.0	0.41	ug/L			07/19/21 16:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/19/21 16:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/19/21 16:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/19/21 16:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/19/21 16:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/19/21 16:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/19/21 16:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/19/21 16:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/19/21 16:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/19/21 16:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/19/21 16:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/19/21 16:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/19/21 16:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/19/21 16:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/19/21 16:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/19/21 16:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/19/21 16:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:42	1
Styrene	<0.39		1.0	0.39	ug/L			07/19/21 16:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 16:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/19/21 16:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/19/21 16:42	1
Tetrachloroethene	**0.74**	**J**	1.0	0.37	ug/L			07/19/21 16:42	1
Toluene	<0.15		0.50	0.15	ug/L			07/19/21 16:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/19/21 16:42	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LARGE SUMP
Lab Sample ID: 500-202086-2
Date Collected: 07/07/21 11:20
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/19/21 16:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/19/21 16:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/19/21 16:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/19/21 16:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/19/21 16:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/19/21 16:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/19/21 16:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/19/21 16:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/19/21 16:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/19/21 16:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/19/21 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*07/19/21 16:42*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 120*		*07/19/21 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*07/19/21 16:42*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*07/19/21 16:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 11:20	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		07/13/21 06:29	07/14/21 11:20	1
Anthracene	<0.26		0.77	0.26	ug/L		07/13/21 06:29	07/14/21 11:20	1
Benzo[a]anthracene	<0.044		0.15	0.044	ug/L		07/13/21 06:29	07/14/21 11:20	1
Benzo[a]pyrene	<0.076		0.15	0.076	ug/L		07/13/21 06:29	07/14/21 11:20	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		07/13/21 06:29	07/14/21 11:20	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		07/13/21 06:29	07/14/21 11:20	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		07/13/21 06:29	07/14/21 11:20	1
Chrysene	<0.053		0.15	0.053	ug/L		07/13/21 06:29	07/14/21 11:20	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		07/13/21 06:29	07/14/21 11:20	1
Fluoranthene	<0.35		0.77	0.35	ug/L		07/13/21 06:29	07/14/21 11:20	1
Fluorene	<0.19		0.77	0.19	ug/L		07/13/21 06:29	07/14/21 11:20	1
Indeno[1,2,3-cd]pyrene	<0.058		0.15	0.058	ug/L		07/13/21 06:29	07/14/21 11:20	1
Naphthalene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 11:20	1
Phenanthrene	<0.23		0.77	0.23	ug/L		07/13/21 06:29	07/14/21 11:20	1
Pyrene	<0.33		0.77	0.33	ug/L		07/13/21 06:29	07/14/21 11:20	1
1-Methylnaphthalene	<0.23	*1	1.5	0.23	ug/L		07/13/21 06:29	07/14/21 11:20	1
2-Methylnaphthalene	<0.050	*1	1.5	0.050	ug/L		07/13/21 06:29	07/14/21 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*56*		*36 - 120*	*07/13/21 06:29*	*07/14/21 11:20*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*07/13/21 06:29*	*07/14/21 11:20*	*1*
2-Fluorobiphenyl (Surr)	*72*		*34 - 110*	*07/13/21 06:29*	*07/14/21 11:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		07/12/21 10:42	07/13/21 15:18	1
PCB-1221	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 15:18	1
PCB-1232	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 15:18	1

Client Sample ID: LARGE SUMP
Lab Sample ID: 500-202086-2
Date Collected: 07/07/21 11:20
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 15:18	1
PCB-1248	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 15:18	1
PCB-1254	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 15:18	1
PCB-1260	<0.070		0.40	0.070	ug/L		07/12/21 10:42	07/13/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 120*	*07/12/21 10:42*	*07/13/21 15:18*	*1*
DCB Decachlorobiphenyl	*109*		*30 - 140*	*07/12/21 10:42*	*07/13/21 15:18*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.0**	**J**	4.2	2.0	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluoropentanoic acid (PFPeA)	**0.42**	**J**	1.7	0.42	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorohexanoic acid (PFHxA)	**0.61**	**J I**	1.7	0.49	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluoroheptanoic acid (PFHpA)	**0.21**	**J**	1.7	0.21	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorooctanoic acid (PFOA)	**2.5**		1.7	0.72	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorodecanoic acid (PFDA)	**0.29**	**J**	1.7	0.26	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorobutanesulfonic acid (PFBS)	**1.3**	**J**	1.7	0.17	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorohexanesulfonic acid (PFHxS)	**1.6**	**J**	1.7	0.48	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.20**	**J**	1.7	0.16	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorooctanesulfonic acid (PFOS)	**14**		1.7	0.46	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82	*1	1.7	0.82	ng/L		07/13/21 04:51	07/16/21 14:51	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		07/13/21 04:51	07/16/21 14:51	1
NEtFOSA	<0.74		1.7	0.74	ng/L		07/13/21 04:51	07/16/21 14:51	1
NMeFOSA	<0.36		1.7	0.36	ng/L		07/13/21 04:51	07/16/21 14:51	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		07/13/21 04:51	07/16/21 14:51	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		07/13/21 04:51	07/16/21 14:51	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/13/21 04:51	07/16/21 14:51	1
NEtFOSE	<0.72		1.7	0.72	ng/L		07/13/21 04:51	07/16/21 14:51	1
4:2 FTS	<0.20		1.7	0.20	ng/L		07/13/21 04:51	07/16/21 14:51	1
6:2 FTS	<2.1		4.2	2.1	ng/L		07/13/21 04:51	07/16/21 14:51	1
8:2 FTS	<0.39		1.7	0.39	ng/L		07/13/21 04:51	07/16/21 14:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/13/21 04:51	07/16/21 14:51	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/13/21 04:51	07/16/21 14:51	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		07/13/21 04:51	07/16/21 14:51	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		07/13/21 04:51	07/16/21 14:51	1

Client Sample ID: LARGE SUMP
Lab Sample ID: 500-202086-2

Date Collected: 07/07/21 11:20
Matrix: Water
Date Received: 07/09/21 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C5 PFPeA	87		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 PFHxA	89		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C4 PFHpA	92		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C4 PFOA	92		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C5 PFNA	92		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 PFDA	90		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 PFUnA	83		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 PFDoA	81		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 PFTeDA	69		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C3 PFBS	101		25 - 150	07/13/21 04:51	07/16/21 14:51	1
18O2 PFHxS	91		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C4 PFOS	90		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C8 FOSA	91		10 - 150	07/13/21 04:51	07/16/21 14:51	1
d3-NMeFOSAA	69		25 - 150	07/13/21 04:51	07/16/21 14:51	1
d5-NEtFOSAA	78		25 - 150	07/13/21 04:51	07/16/21 14:51	1
d-N-MeFOSA-M	66		10 - 150	07/13/21 04:51	07/16/21 14:51	1
d-N-EtFOSA-M	65		10 - 150	07/13/21 04:51	07/16/21 14:51	1
d7-N-MeFOSE-M	62		10 - 150	07/13/21 04:51	07/16/21 14:51	1
d9-N-EtFOSE-M	65		10 - 150	07/13/21 04:51	07/16/21 14:51	1
M2-4:2 FTS	113		25 - 150	07/13/21 04:51	07/16/21 14:51	1
M2-6:2 FTS	108		25 - 150	07/13/21 04:51	07/16/21 14:51	1
M2-8:2 FTS	92		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C3 HFPO-DA	91		25 - 150	07/13/21 04:51	07/16/21 14:51	1
13C2 10:2 FTS	91		25 - 150	07/13/21 04:51	07/16/21 14:51	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		1.0	0.23	ug/L		08/04/21 07:41	08/05/21 15:04	1
Barium	**73**		2.5	0.73	ug/L		08/04/21 07:41	08/05/21 15:04	1
Cadmium	<0.17		0.50	0.17	ug/L		08/04/21 07:41	08/05/21 15:04	1
Chromium	<1.1		5.0	1.1	ug/L		08/04/21 07:41	08/05/21 15:04	1
Lead	<0.19		0.50	0.19	ug/L		08/04/21 07:41	08/05/21 15:04	1
Selenium	<0.98		2.5	0.98	ug/L		08/04/21 07:41	08/05/21 15:04	1
Silver	<0.12		0.50	0.12	ug/L		08/04/21 07:41	08/05/21 15:04	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.95**	**J**	1.0	0.23	ug/L		07/13/21 08:27	07/13/21 19:05	1
Barium	**69**		2.5	0.73	ug/L		07/13/21 08:27	07/13/21 19:05	1
Cadmium	<0.17		0.50	0.17	ug/L		07/13/21 08:27	07/13/21 19:05	1
Chromium	<1.1		5.0	1.1	ug/L		07/13/21 08:27	07/13/21 19:05	1
Lead	<0.19		0.50	0.19	ug/L		07/13/21 08:27	07/13/21 19:05	1
Selenium	<0.98		2.5	0.98	ug/L		07/13/21 08:27	07/13/21 19:05	1
Silver	<0.12		0.50	0.12	ug/L		07/13/21 08:27	07/13/21 19:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098	H	0.20	0.098	ug/L		08/04/21 09:40	08/05/21 07:59	1

Client Sample Results

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LARGE SUMP
Lab Sample ID: 500-202086-2
Date Collected: 07/07/21 11:20
Matrix: Water
Date Received: 07/09/21 09:30

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		07/12/21 09:20	07/13/21 08:41	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: WEST SUMP
Date Collected: 07/07/21 11:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/19/21 17:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/19/21 17:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/19/21 17:08	1
Bromoform	<0.48		1.0	0.48	ug/L			07/19/21 17:08	1
Bromomethane	<0.80	*+	3.0	0.80	ug/L			07/19/21 17:08	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			07/19/21 17:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/19/21 17:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
Chloroethane	<0.51	*+	1.0	0.51	ug/L			07/19/21 17:08	1
Chloroform	<0.37		2.0	0.37	ug/L			07/19/21 17:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/19/21 17:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/19/21 17:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/19/21 17:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/19/21 17:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/19/21 17:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/19/21 17:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/19/21 17:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/19/21 17:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/19/21 17:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/19/21 17:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/19/21 17:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/19/21 17:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/19/21 17:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/19/21 17:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/19/21 17:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/19/21 17:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/19/21 17:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/19/21 17:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/19/21 17:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/19/21 17:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/19/21 17:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 17:08	1
Styrene	<0.39		1.0	0.39	ug/L			07/19/21 17:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 17:08	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/19/21 17:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/19/21 17:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/19/21 17:08	1
Toluene	<0.15		0.50	0.15	ug/L			07/19/21 17:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/19/21 17:08	1

Client Sample ID: WEST SUMP
Lab Sample ID: 500-202086-3

Date Collected: 07/07/21 11:45
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/19/21 17:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/19/21 17:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/19/21 17:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/19/21 17:08	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/19/21 17:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/19/21 17:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/19/21 17:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/19/21 17:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/19/21 17:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/19/21 17:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/19/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*07/19/21 17:08*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*07/19/21 17:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*07/19/21 17:08*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*07/19/21 17:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 11:43	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		07/13/21 06:29	07/14/21 11:43	1
Anthracene	<0.26		0.77	0.26	ug/L		07/13/21 06:29	07/14/21 11:43	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		07/13/21 06:29	07/14/21 11:43	1
Benzo[a]pyrene	<0.076		0.15	0.076	ug/L		07/13/21 06:29	07/14/21 11:43	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		07/13/21 06:29	07/14/21 11:43	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		07/13/21 06:29	07/14/21 11:43	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		07/13/21 06:29	07/14/21 11:43	1
Chrysene	<0.052		0.15	0.052	ug/L		07/13/21 06:29	07/14/21 11:43	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		07/13/21 06:29	07/14/21 11:43	1
Fluoranthene	<0.35		0.77	0.35	ug/L		07/13/21 06:29	07/14/21 11:43	1
Fluorene	<0.19		0.77	0.19	ug/L		07/13/21 06:29	07/14/21 11:43	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		07/13/21 06:29	07/14/21 11:43	1
Naphthalene	<0.24	*1	0.77	0.24	ug/L		07/13/21 06:29	07/14/21 11:43	1
Phenanthrene	<0.23		0.77	0.23	ug/L		07/13/21 06:29	07/14/21 11:43	1
Pyrene	<0.33		0.77	0.33	ug/L		07/13/21 06:29	07/14/21 11:43	1
1-Methylnaphthalene	<0.23	*1	1.5	0.23	ug/L		07/13/21 06:29	07/14/21 11:43	1
2-Methylnaphthalene	<0.050	*1	1.5	0.050	ug/L		07/13/21 06:29	07/14/21 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*64*		*36 - 120*	*07/13/21 06:29*	*07/14/21 11:43*	*1*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*07/13/21 06:29*	*07/14/21 11:43*	*1*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*	*07/13/21 06:29*	*07/14/21 11:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		07/12/21 10:42	07/13/21 15:34	1
PCB-1221	<0.19		0.39	0.19	ug/L		07/12/21 10:42	07/13/21 15:34	1
PCB-1232	<0.19		0.39	0.19	ug/L		07/12/21 10:42	07/13/21 15:34	1

Client Sample ID: WEST SUMP
Lab Sample ID: 500-202086-3
Date Collected: 07/07/21 11:45
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.19		0.39	0.19	ug/L		07/12/21 10:42	07/13/21 15:34	1
PCB-1248	<0.19		0.39	0.19	ug/L		07/12/21 10:42	07/13/21 15:34	1
PCB-1254	<0.19		0.39	0.19	ug/L		07/12/21 10:42	07/13/21 15:34	1
PCB-1260	<0.068		0.39	0.068	ug/L		07/12/21 10:42	07/13/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 120*	*07/12/21 10:42*	*07/13/21 15:34*	*1*
DCB Decachlorobiphenyl	*81*		*30 - 140*	*07/12/21 10:42*	*07/13/21 15:34*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.1**	**J**	4.4	2.1	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluoropentanoic acid (PFPeA)	**2.8**		1.8	0.43	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorohexanoic acid (PFHxA)	**4.4**		1.8	0.51	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluoroheptanoic acid (PFHpA)	**0.77**	**J**	1.8	0.22	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorooctanoic acid (PFOA)	**2.8**		1.8	0.75	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorononanoic acid (PFNA)	**0.49**	**J**	1.8	0.24	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorodecanoic acid (PFDA)	**0.54**	**J**	1.8	0.27	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorobutanesulfonic acid (PFBS)	**0.83**	**J**	1.8	0.18	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorohexanesulfonic acid (PFHxS)	**1.5**	**J**	1.8	0.50	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.45**	**J**	1.8	0.17	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorooctanesulfonic acid (PFOS)	**37**		1.8	0.48	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86	*1	1.8	0.86	ng/L		07/13/21 04:51	07/16/21 15:00	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/13/21 04:51	07/16/21 15:00	1
NEtFOSA	<0.77		1.8	0.77	ng/L		07/13/21 04:51	07/16/21 15:00	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/13/21 04:51	07/16/21 15:00	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/13/21 04:51	07/16/21 15:00	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/13/21 04:51	07/16/21 15:00	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/13/21 04:51	07/16/21 15:00	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/13/21 04:51	07/16/21 15:00	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/13/21 04:51	07/16/21 15:00	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/13/21 04:51	07/16/21 15:00	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/13/21 04:51	07/16/21 15:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/13/21 04:51	07/16/21 15:00	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/13/21 04:51	07/16/21 15:00	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/13/21 04:51	07/16/21 15:00	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/13/21 04:51	07/16/21 15:00	1

Client Sample ID: WEST SUMP
Lab Sample ID: 500-202086-3

Date Collected: 07/07/21 11:45
Matrix: Water
Date Received: 07/09/21 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	82		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C5 PFPeA	96		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 PFHxA	105		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C4 PFHpA	109		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C4 PFOA	111		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C5 PFNA	102		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 PFDA	103		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 PFUnA	107		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 PFDoA	101		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 PFTeDA	84		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C3 PFBS	117		25 - 150	07/13/21 04:51	07/16/21 15:00	1
18O2 PFHxS	101		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C4 PFOS	102		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C8 FOSA	101		10 - 150	07/13/21 04:51	07/16/21 15:00	1
d3-NMeFOSAA	90		25 - 150	07/13/21 04:51	07/16/21 15:00	1
d5-NEtFOSAA	93		25 - 150	07/13/21 04:51	07/16/21 15:00	1
d-N-MeFOSA-M	90		10 - 150	07/13/21 04:51	07/16/21 15:00	1
d-N-EtFOSA-M	80		10 - 150	07/13/21 04:51	07/16/21 15:00	1
d7-N-MeFOSE-M	76		10 - 150	07/13/21 04:51	07/16/21 15:00	1
d9-N-EtFOSE-M	80		10 - 150	07/13/21 04:51	07/16/21 15:00	1
M2-4:2 FTS	167	*5+	25 - 150	07/13/21 04:51	07/16/21 15:00	1
M2-6:2 FTS	196	*5+	25 - 150	07/13/21 04:51	07/16/21 15:00	1
M2-8:2 FTS	169	*5+	25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C3 HFPO-DA	104		25 - 150	07/13/21 04:51	07/16/21 15:00	1
13C2 10:2 FTS	134		25 - 150	07/13/21 04:51	07/16/21 15:00	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.79**	**J**	1.0	0.23	ug/L		08/04/21 07:41	08/05/21 15:08	1
Barium	**28**		2.5	0.73	ug/L		08/04/21 07:41	08/05/21 15:08	1
Cadmium	<0.17		0.50	0.17	ug/L		08/04/21 07:41	08/05/21 15:08	1
Chromium	<1.1		5.0	1.1	ug/L		08/04/21 07:41	08/05/21 15:08	1
Lead	**0.29**	**J**	0.50	0.19	ug/L		08/04/21 07:41	08/05/21 15:08	1
Selenium	<0.98		2.5	0.98	ug/L		08/04/21 07:41	08/05/21 15:08	1
Silver	<0.12		0.50	0.12	ug/L		08/04/21 07:41	08/05/21 15:08	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.28**	**J**	1.0	0.23	ug/L		07/13/21 08:27	07/13/21 19:08	1
Barium	**24**		2.5	0.73	ug/L		07/13/21 08:27	07/13/21 19:08	1
Cadmium	<0.17		0.50	0.17	ug/L		07/13/21 08:27	07/13/21 19:08	1
Chromium	<1.1		5.0	1.1	ug/L		07/13/21 08:27	07/13/21 19:08	1
Lead	<0.19		0.50	0.19	ug/L		07/13/21 08:27	07/13/21 19:08	1
Selenium	<0.98		2.5	0.98	ug/L		07/13/21 08:27	07/13/21 19:08	1
Silver	<0.12		0.50	0.12	ug/L		07/13/21 08:27	07/13/21 19:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098	H	0.20	0.098	ug/L		08/04/21 09:40	08/05/21 08:01	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: WEST SUMP
Lab Sample ID: 500-202086-3
Date Collected: 07/07/21 11:45
Matrix: Water
Date Received: 07/09/21 09:30

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		07/12/21 09:20	07/13/21 08:43	1

Client Sample ID: FB-01

Date Collected: 07/07/21 12:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.3	2.0	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83	*1	1.7	0.83	ng/L		07/13/21 04:51	07/16/21 15:10	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		07/13/21 04:51	07/16/21 15:10	1
NEtFOSA	<0.74		1.7	0.74	ng/L		07/13/21 04:51	07/16/21 15:10	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/13/21 04:51	07/16/21 15:10	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/13/21 04:51	07/16/21 15:10	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/13/21 04:51	07/16/21 15:10	1
NMeFOSE	<1.2		3.4	1.2	ng/L		07/13/21 04:51	07/16/21 15:10	1
NEtFOSE	<0.72		1.7	0.72	ng/L		07/13/21 04:51	07/16/21 15:10	1
4:2 FTS	<0.20		1.7	0.20	ng/L		07/13/21 04:51	07/16/21 15:10	1
6:2 FTS	<2.1		4.3	2.1	ng/L		07/13/21 04:51	07/16/21 15:10	1
8:2 FTS	<0.39		1.7	0.39	ng/L		07/13/21 04:51	07/16/21 15:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		07/13/21 04:51	07/16/21 15:10	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		07/13/21 04:51	07/16/21 15:10	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		07/13/21 04:51	07/16/21 15:10	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		07/13/21 04:51	07/16/21 15:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C5 PFPeA	*89*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C2 PFHxA	*90*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C4 PFHpA	*93*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C4 PFOA	*93*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C5 PFNA	*92*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C2 PFDA	*86*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C2 PFUnA	*85*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C2 PFDoA	*95*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C2 PFTeDA	*82*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
13C3 PFBS	*101*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*
18O2 PFHxS	*90*		*25 - 150*	*07/13/21 04:51*	*07/16/21 15:10*	*1*

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: FB-01
Lab Sample ID: 500-202086-4
Date Collected: 07/07/21 12:00
Matrix: Water
Date Received: 07/09/21 09:30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	92		25 - 150	07/13/21 04:51	07/16/21 15:10	1
13C8 FOSA	90		10 - 150	07/13/21 04:51	07/16/21 15:10	1
d3-NMeFOSAA	75		25 - 150	07/13/21 04:51	07/16/21 15:10	1
d5-NEtFOSAA	84		25 - 150	07/13/21 04:51	07/16/21 15:10	1
d-N-MeFOSA-M	74		10 - 150	07/13/21 04:51	07/16/21 15:10	1
d-N-EtFOSA-M	73		10 - 150	07/13/21 04:51	07/16/21 15:10	1
d7-N-MeFOSE-M	68		10 - 150	07/13/21 04:51	07/16/21 15:10	1
d9-N-EtFOSE-M	70		10 - 150	07/13/21 04:51	07/16/21 15:10	1
M2-4:2 FTS	81		25 - 150	07/13/21 04:51	07/16/21 15:10	1
M2-6:2 FTS	91		25 - 150	07/13/21 04:51	07/16/21 15:10	1
M2-8:2 FTS	92		25 - 150	07/13/21 04:51	07/16/21 15:10	1
13C3 HFPO-DA	93		25 - 150	07/13/21 04:51	07/16/21 15:10	1
13C2 10:2 FTS	98		25 - 150	07/13/21 04:51	07/16/21 15:10	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5
Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 59.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<16		28	16	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Bromobenzene	<40		110	40	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Bromochloromethane	<48		110	48	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Bromodichloromethane	<42		110	42	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Bromoform	<55		110	55	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Bromomethane	<90	*+	340	90	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
2-Butanone (MEK)	<240		560	240	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Carbon tetrachloride	<43		110	43	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Chlorobenzene	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Chloroethane	<57	*+	110	57	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Chloroform	<42		230	42	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Chloromethane	<36		110	36	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
2-Chlorotoluene	<35		110	35	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
4-Chlorotoluene	<39		110	39	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
cis-1,2-Dichloroethene	<46		110	46	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
cis-1,3-Dichloropropene	<47		110	47	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Dibromochloromethane	<55		110	55	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2-Dibromo-3-Chloropropane	<220		560	220	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2-Dibromoethane	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Dibromomethane	<30		110	30	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2-Dichlorobenzene	<38		110	38	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,3-Dichlorobenzene	<45		110	45	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,4-Dichlorobenzene	<41		110	41	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Dichlorodifluoromethane	<76		340	76	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1-Dichloroethane	<46		110	46	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2-Dichloroethane	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1-Dichloroethene	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2-Dichloropropane	<48		110	48	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,3-Dichloropropane	<41		110	41	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
2,2-Dichloropropane	<50		110	50	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1-Dichloropropene	<34		110	34	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Ethylbenzene	<21		28	21	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Hexachlorobutadiene	<50		110	50	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Isopropylbenzene	<43		110	43	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Isopropyl ether	<31		110	31	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Methylene Chloride	<180		560	180	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Methyl tert-butyl ether	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Naphthalene	<38		110	38	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
n-Butylbenzene	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
N-Propylbenzene	<47		110	47	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
p-Isopropyltoluene	<41		110	41	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
sec-Butylbenzene	<45		110	45	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Styrene	<44		110	44	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
tert-Butylbenzene	<45		110	45	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1,1,2-Tetrachloroethane	<52		110	52	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1,2,2-Tetrachloroethane	<45		110	45	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Tetrachloroethene	<42		110	42	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Toluene	<17		28	17	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
trans-1,2-Dichloroethene	<39		110	39	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5

Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 59.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<41		110	41	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2,3-Trichlorobenzene	<52		110	52	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2,4-Trichlorobenzene	<39		110	39	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1,1-Trichloroethane	<43		110	43	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,1,2-Trichloroethane	<40		110	40	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Trichloroethene	<19		56	19	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Trichlorofluoromethane	<48		110	48	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2,3-Trichloropropane	<47		230	47	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,2,4-Trimethylbenzene	<40		110	40	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
1,3,5-Trimethylbenzene	<43		110	43	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Vinyl chloride	<30		110	30	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50
Xylenes, Total	<25		56	25	ug/Kg	☼	07/07/21 12:15	07/19/21 18:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/07/21 12:15*	*07/19/21 18:55*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*07/07/21 12:15*	*07/19/21 18:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/07/21 12:15*	*07/19/21 18:55*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*07/07/21 12:15*	*07/19/21 18:55*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<290		1600	290	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Acenaphthylene	<210		1600	210	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Anthracene	<270		1600	270	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Benzo[a]anthracene	<220		1600	220	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Benzo[a]pyrene	<310	*3	1600	310	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Benzo[b]fluoranthene	<350	*3	1600	350	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Benzo[g,h,i]perylene	<520	*3	1600	520	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Benzo[k]fluoranthene	<480	*3	1600	480	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Chrysene	<440		1600	440	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Dibenz(a,h)anthracene	<310	*3	1600	310	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Fluoranthene	<300		1600	300	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Fluorene	<230		1600	230	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Indeno[1,2,3-cd]pyrene	<420	*3	1600	420	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Naphthalene	<250		1600	250	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Phenanthrene	<230		1600	230	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
Pyrene	<320		1600	320	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
1-Methylnaphthalene	<390		3300	390	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10
2-Methylnaphthalene	<300		3300	300	ug/Kg	☼	07/19/21 17:06	07/20/21 15:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*07/19/21 17:06*	*07/20/21 15:30*	*10*
Terphenyl-d14 (Surr)	*192*	*S1+*	*42 - 157*	*07/19/21 17:06*	*07/20/21 15:30*	*10*
2-Fluorobiphenyl (Surr)	*124*		*43 - 145*	*07/19/21 17:06*	*07/20/21 15:30*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<82		210	82	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5
PCB-1221	<82		210	82	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5
PCB-1232	<57		210	57	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5
Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 59.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<81		210	81	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5
PCB-1248	<99		210	99	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5
PCB-1254	<71		210	71	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5
PCB-1260	<79		210	79	ug/Kg	☼	07/20/21 06:29	07/21/21 06:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*49 - 129*	*07/20/21 06:29*	*07/21/21 06:49*	*5*
DCB Decachlorobiphenyl	*124*	*S1+*	*37 - 121*	*07/20/21 06:29*	*07/21/21 06:49*	*5*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.096**	**J**	0.31	0.044	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluoropentanoic acid (PFPeA)	<0.12		0.31	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorohexanoic acid (PFHxA)	**0.12**	**J**	0.31	0.065	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluoroheptanoic acid (PFHpA)	**0.048**	**J**	0.31	0.045	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorooctanoic acid (PFOA)	**4.3**		0.31	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorononanoic acid (PFNA)	<0.056		0.31	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorodecanoic acid (PFDA)	<0.034		0.31	0.034	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluoroundecanoic acid (PFUnA)	<0.056		0.31	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorododecanoic acid (PFDoA)	<0.10		0.31	0.10	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorotridecanoic acid (PFTrDA)	<0.079		0.31	0.079	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.084		0.31	0.084	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorobutanesulfonic acid (PFBS)	<0.039		0.31	0.039	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.031		0.31	0.031	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorohexanesulfonic acid (PFHxS)	**0.059**	**J**	0.31	0.048	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.054		0.31	0.054	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorooctanesulfonic acid (PFOS)	**0.82**		0.78	0.31	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorononanesulfonic acid (PFNS)	<0.031		0.31	0.031	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorodecanesulfonic acid (PFDS)	**0.22**	**J**	0.31	0.061	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.093		0.31	0.093	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
Perfluorooctanesulfonamide (FOSA)	<0.13		0.31	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NEtFOSA	<0.037		0.31	0.037	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NMeFOSA	<0.064		0.31	0.064	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NMeFOSAA	<0.61		3.1	0.61	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NEtFOSAA	**0.99**	**J**	3.1	0.58	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NMeFOSE	<0.11		0.31	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
NEtFOSE	<0.056		0.31	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
4:2 FTS	<0.58		3.1	0.58	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
6:2 FTS	<0.23		3.1	0.23	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
8:2 FTS	<0.39		3.1	0.39	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.028		0.31	0.028	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
HFPO-DA (GenX)	<0.17		0.39	0.17	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
9Cl-PF3ONS	<0.042		0.31	0.042	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1
11Cl-PF3OUdS	<0.034		0.31	0.034	ug/Kg	☼	07/13/21 19:40	07/15/21 04:08	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5

Date Collected: 07/07/21 12:15
Matrix: Solid

Date Received: 07/09/21 09:30
Percent Solids: 59.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	41		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C5 PFPeA	58		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 PFHxA	57		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C4 PFHpA	57		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C4 PFOA	54		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C5 PFNA	56		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 PFDA	51		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 PFUnA	50		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 PFDoA	52		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 PFTeDA	42		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C3 PFBS	59		25 - 150	07/13/21 19:40	07/15/21 04:08	1
18O2 PFHxS	53		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C4 PFOS	57		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C8 FOSA	47		10 - 150	07/13/21 19:40	07/15/21 04:08	1
d3-NMeFOSAA	45		25 - 150	07/13/21 19:40	07/15/21 04:08	1
d5-NEtFOSAA	43		25 - 150	07/13/21 19:40	07/15/21 04:08	1
d-N-MeFOSA-M	42		10 - 150	07/13/21 19:40	07/15/21 04:08	1
d-N-EtFOSA-M	43		10 - 150	07/13/21 19:40	07/15/21 04:08	1
d7-N-MeFOSE-M	41		10 - 150	07/13/21 19:40	07/15/21 04:08	1
d9-N-EtFOSE-M	41		10 - 150	07/13/21 19:40	07/15/21 04:08	1
M2-4:2 FTS	110		25 - 150	07/13/21 19:40	07/15/21 04:08	1
M2-6:2 FTS	129		25 - 150	07/13/21 19:40	07/15/21 04:08	1
M2-8:2 FTS	123		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C3 HFPO-DA	57		25 - 150	07/13/21 19:40	07/15/21 04:08	1
13C2 10:2 FTS	100		25 - 150	07/13/21 19:40	07/15/21 04:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.6	0.53	mg/Kg	☼	07/20/21 17:24	07/21/21 16:14	1
Barium	**530**		1.6	0.18	mg/Kg	☼	07/20/21 17:24	07/21/21 16:14	1
Cadmium	**8.6**	**B**	0.31	0.056	mg/Kg	☼	07/20/21 17:24	07/21/21 16:14	1
Chromium	**670**		7.8	3.9	mg/Kg	☼	07/20/21 17:24	07/22/21 13:43	5
Lead	**2600**		0.78	0.36	mg/Kg	☼	07/20/21 17:24	07/21/21 16:14	1
Selenium	<0.92		1.6	0.92	mg/Kg	☼	07/20/21 17:24	07/21/21 16:14	1
Silver	**2.6**	**J B**	3.9	1.0	mg/Kg	☼	07/20/21 17:24	07/22/21 13:43	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**120**		24	8.1	ug/Kg	☼	07/20/21 13:15	07/21/21 08:46	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE LARGE SUMP
Lab Sample ID: 500-202086-6
Date Collected: 07/07/21 12:30
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 23.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<52		89	52	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Bromobenzene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Bromochloromethane	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Bromodichloromethane	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Bromoform	<170		360	170	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Bromomethane	<280	*+	1100	280	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
2-Butanone (MEK)	<750		1800	750	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Carbon tetrachloride	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Chlorobenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Chloroethane	<180	*+	360	180	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Chloroform	<130		710	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Chloromethane	<110		360	110	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
2-Chlorotoluene	<110		360	110	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
4-Chlorotoluene	<120		360	120	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
cis-1,2-Dichloroethene	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
cis-1,3-Dichloropropene	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Dibromochloromethane	<170		360	170	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2-Dibromo-3-Chloropropane	<710		1800	710	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2-Dibromoethane	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Dibromomethane	<96		360	96	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2-Dichlorobenzene	<120		360	120	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,3-Dichlorobenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,4-Dichlorobenzene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Dichlorodifluoromethane	<240		1100	240	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1-Dichloroethane	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2-Dichloroethane	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1-Dichloroethene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2-Dichloropropane	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,3-Dichloropropane	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
2,2-Dichloropropane	<160		360	160	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1-Dichloropropene	<110		360	110	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Ethylbenzene	<65		89	65	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Hexachlorobutadiene	<160		360	160	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Isopropylbenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Isopropyl ether	<98		360	98	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Methylene Chloride	<580		1800	580	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Methyl tert-butyl ether	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Naphthalene	<120		360	120	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
n-Butylbenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
N-Propylbenzene	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
p-Isopropyltoluene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
sec-Butylbenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Styrene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
tert-Butylbenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1,1,2-Tetrachloroethane	<160		360	160	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1,2,2-Tetrachloroethane	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Tetrachloroethene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Toluene	<52		89	52	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
trans-1,2-Dichloroethene	<120		360	120	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50

Client Sample ID: PRE LARGE SUMP
Lab Sample ID: 500-202086-6

Date Collected: 07/07/21 12:30
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 23.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2,3-Trichlorobenzene	<160		360	160	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2,4-Trichlorobenzene	<120		360	120	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1,1-Trichloroethane	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,1,2-Trichloroethane	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Trichloroethene	<58		180	58	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Trichlorofluoromethane	<150		360	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2,3-Trichloropropane	<150		710	150	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,2,4-Trimethylbenzene	<130		360	130	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
1,3,5-Trimethylbenzene	<140		360	140	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Vinyl chloride	<93		360	93	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50
Xylenes, Total	<78		180	78	ug/Kg	☼	07/07/21 12:30	07/19/21 19:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*07/07/21 12:30*	*07/19/21 19:21*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*07/07/21 12:30*	*07/19/21 19:21*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/07/21 12:30*	*07/19/21 19:21*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*07/07/21 12:30*	*07/19/21 19:21*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<72		400	72	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Acenaphthylene	<53		400	53	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Anthracene	<67		400	67	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Benzo[a]anthracene	<54		400	54	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Benzo[a]pyrene	<77		400	77	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Benzo[b]fluoranthene	<86		400	86	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Benzo[g,h,i]perylene	<130		400	130	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Benzo[k]fluoranthene	<120		400	120	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Chrysene	<110		400	110	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Dibenz(a,h)anthracene	<77		400	77	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Fluoranthene	<74		400	74	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Fluorene	<56		400	56	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Indeno[1,2,3-cd]pyrene	<100		400	100	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Naphthalene	<61		400	61	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Phenanthrene	<56		400	56	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
Pyrene	<79		400	79	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
1-Methylnaphthalene	<97		810	97	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1
2-Methylnaphthalene	<73		810	73	ug/Kg	☼	07/19/21 17:06	07/22/21 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*07/19/21 17:06*	*07/22/21 15:58*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*07/19/21 17:06*	*07/22/21 15:58*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*07/19/21 17:06*	*07/22/21 15:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<80		200	80	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1
PCB-1221	<80		200	80	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1
PCB-1232	<55		200	55	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE LARGE SUMP
Lab Sample ID: 500-202086-6
Date Collected: 07/07/21 12:30
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 23.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<80		200	80	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1
PCB-1248	<97		200	97	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1
PCB-1254	<69		200	69	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1
PCB-1260	<77		200	77	ug/Kg	☼	07/20/21 06:29	07/20/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*49 - 129*	*07/20/21 06:29*	*07/20/21 17:23*	*1*
DCB Decachlorobiphenyl	*57*		*37 - 121*	*07/20/21 06:29*	*07/20/21 17:23*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.35**	**J**	0.80	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluoropentanoic acid (PFPeA)	**0.40**	**J**	0.80	0.31	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorohexanoic acid (PFHxA)	**0.37**	**J**	0.80	0.17	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluoroheptanoic acid (PFHpA)	<0.12		0.80	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorooctanoic acid (PFOA)	**0.77**	**J**	0.80	0.34	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorononanoic acid (PFNA)	<0.14		0.80	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorodecanoic acid (PFDA)	<0.088		0.80	0.088	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluoroundecanoic acid (PFUnA)	<0.14		0.80	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorododecanoic acid (PFDoA)	<0.27		0.80	0.27	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorotridecanoic acid (PFTrDA)	<0.20		0.80	0.20	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.21		0.80	0.21	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorobutanesulfonic acid (PFBS)	<0.099		0.80	0.099	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.080		0.80	0.080	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.12		0.80	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.14		0.80	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorooctanesulfonic acid (PFOS)	**0.85**	**J**	2.0	0.80	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorononanesulfonic acid (PFNS)	<0.080		0.80	0.080	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.16		0.80	0.16	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.24		0.80	0.24	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
Perfluorooctanesulfonamide (FOSA)	<0.33		0.80	0.33	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NEtFOSA	<0.095		0.80	0.095	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NMeFOSA	<0.16		0.80	0.16	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NMeFOSAA	<1.6		8.0	1.6	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NEtFOSAA	<1.5		8.0	1.5	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NMeFOSE	<0.28		0.80	0.28	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
NEtFOSE	<0.14		0.80	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
4:2 FTS	<1.5		8.0	1.5	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
6:2 FTS	<0.60		8.0	0.60	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
8:2 FTS	<0.99		8.0	0.99	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.072		0.80	0.072	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
HFPO-DA (GenX)	<0.44		0.99	0.44	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
9Cl-PF3ONS	<0.11		0.80	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1
11Cl-PF3OUdS	<0.088		0.80	0.088	ug/Kg	☼	07/13/21 19:40	07/15/21 04:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*37*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:17*	*1*

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: PRE LARGE SUMP

Date Collected: 07/07/21 12:30
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-6

Matrix: Solid
Percent Solids: 23.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	36		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 PFHxA	35		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C4 PFHpA	38		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C4 PFOA	35		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C5 PFNA	39		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 PFDA	39		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 PFUnA	38		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 PFDoA	35		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 PFTeDA	27		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C3 PFBS	42		25 - 150	07/13/21 19:40	07/15/21 04:17	1
18O2 PFHxS	35		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C4 PFOS	38		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C8 FOSA	39		10 - 150	07/13/21 19:40	07/15/21 04:17	1
d3-NMeFOSAA	40		25 - 150	07/13/21 19:40	07/15/21 04:17	1
d5-NEtFOSAA	43		25 - 150	07/13/21 19:40	07/15/21 04:17	1
d-N-MeFOSA-M	35		10 - 150	07/13/21 19:40	07/15/21 04:17	1
d-N-EtFOSA-M	29		10 - 150	07/13/21 19:40	07/15/21 04:17	1
d7-N-MeFOSE-M	25		10 - 150	07/13/21 19:40	07/15/21 04:17	1
d9-N-EtFOSE-M	27		10 - 150	07/13/21 19:40	07/15/21 04:17	1
M2-4:2 FTS	52		25 - 150	07/13/21 19:40	07/15/21 04:17	1
M2-6:2 FTS	62		25 - 150	07/13/21 19:40	07/15/21 04:17	1
M2-8:2 FTS	81		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C3 HFPO-DA	37		25 - 150	07/13/21 19:40	07/15/21 04:17	1
13C2 10:2 FTS	71		25 - 150	07/13/21 19:40	07/15/21 04:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	61		4.2	1.4	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Barium	1500		4.2	0.48	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Cadmium	1.3	B	0.84	0.15	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Chromium	120		4.2	2.1	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Lead	72		2.1	0.97	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Selenium	7.7		4.2	2.5	mg/Kg	☼	07/20/21 17:24	07/21/21 16:17	1
Silver	6.9	J B	10	2.7	mg/Kg	☼	07/20/21 17:24	07/22/21 13:49	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		64	21	ug/Kg	☼	07/20/21 13:15	07/21/21 08:47	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7
Date Collected: 07/07/21 12:45
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 51.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		36	21	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Bromobenzene	<52		140	52	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Bromochloromethane	<62		140	62	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Bromodichloromethane	<54		140	54	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Bromoform	<70		140	70	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Bromomethane	<120	*+	430	120	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
2-Butanone (MEK)	<310		720	310	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Carbon tetrachloride	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Chlorobenzene	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Chloroethane	<73	*+	140	73	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Chloroform	<54		290	54	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Chloromethane	<46		140	46	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
2-Chlorotoluene	<45		140	45	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
4-Chlorotoluene	<51		140	51	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
cis-1,2-Dichloroethene	<59		140	59	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
cis-1,3-Dichloropropene	<60		140	60	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Dibromochloromethane	<71		140	71	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2-Dibromo-3-Chloropropane	<290		720	290	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2-Dibromoethane	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Dibromomethane	<39		140	39	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2-Dichlorobenzene	<48		140	48	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,3-Dichlorobenzene	<58		140	58	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,4-Dichlorobenzene	<53		140	53	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Dichlorodifluoromethane	<98		430	98	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1-Dichloroethane	<59		140	59	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2-Dichloroethane	<57		140	57	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1-Dichloroethene	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2-Dichloropropane	<62		140	62	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,3-Dichloropropane	<52		140	52	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
2,2-Dichloropropane	<64		140	64	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1-Dichloropropene	<43		140	43	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Ethylbenzene	<26		36	26	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Hexachlorobutadiene	<65		140	65	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Isopropylbenzene	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Isopropyl ether	<40		140	40	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Methylene Chloride	<240		720	240	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Methyl tert-butyl ether	<57		140	57	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Naphthalene	<48		140	48	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
n-Butylbenzene	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
N-Propylbenzene	<60		140	60	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
p-Isopropyltoluene	<52		140	52	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
sec-Butylbenzene	<58		140	58	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Styrene	<56		140	56	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
tert-Butylbenzene	<58		140	58	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1,1,2-Tetrachloroethane	<67		140	67	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1,2,2-Tetrachloroethane	<58		140	58	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Tetrachloroethene	<54		140	54	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Toluene	<21		36	21	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
trans-1,2-Dichloroethene	<51		140	51	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7

Date Collected: 07/07/21 12:45
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 51.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<52		140	52	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2,3-Trichlorobenzene	<66		140	66	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2,4-Trichlorobenzene	<49		140	49	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1,1-Trichloroethane	<55		140	55	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,1,2-Trichloroethane	<51		140	51	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Trichloroethene	<24		72	24	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Trichlorofluoromethane	<62		140	62	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2,3-Trichloropropane	<60		290	60	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,2,4-Trimethylbenzene	<52		140	52	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
1,3,5-Trimethylbenzene	<55		140	55	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Vinyl chloride	<38		140	38	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50
Xylenes, Total	**720**		72	32	ug/Kg	☼	07/07/21 12:45	07/19/21 19:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/07/21 12:45*	*07/19/21 19:47*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*07/07/21 12:45*	*07/19/21 19:47*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/07/21 12:45*	*07/19/21 19:47*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*07/07/21 12:45*	*07/19/21 19:47*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<340		1900	340	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Acenaphthylene	<250		1900	250	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Anthracene	<310		1900	310	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Benzo[a]anthracene	**530**	**J**	1900	250	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Benzo[a]pyrene	**1000**	**J**	1900	360	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Benzo[b]fluoranthene	**2400**		1900	400	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Benzo[g,h,i]perylene	**650**	**J**	1900	600	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Benzo[k]fluoranthene	**580**	**J**	1900	550	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Chrysene	**1400**	**J**	1900	510	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Dibenz(a,h)anthracene	<360		1900	360	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Fluoranthene	**2300**		1900	350	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Fluorene	<260		1900	260	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Indeno[1,2,3-cd]pyrene	**680**	**J**	1900	480	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Naphthalene	<290		1900	290	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Phenanthrene	**1100**	**J**	1900	260	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
Pyrene	**1800**	**J**	1900	370	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
1-Methylnaphthalene	<460		3800	460	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10
2-Methylnaphthalene	<340		3800	340	ug/Kg	☼	07/19/21 17:06	07/22/21 16:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*07/19/21 17:06*	*07/22/21 16:19*	*10*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*07/19/21 17:06*	*07/22/21 16:19*	*10*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*	*07/19/21 17:06*	*07/22/21 16:19*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<62		160	62	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5
PCB-1221	<62		160	62	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5
PCB-1232	<42		160	42	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7

Date Collected: 07/07/21 12:45
Matrix: Solid

Date Received: 07/09/21 09:30
Percent Solids: 51.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<61		160	61	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5
PCB-1248	<75		160	75	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5
PCB-1254	<53		160	53	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5
PCB-1260	<59		160	59	ug/Kg	☼	07/20/21 06:29	07/21/21 07:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*07/20/21 06:29*	*07/21/21 07:05*	*5*
DCB Decachlorobiphenyl	*1677*	*S1+*	*37 - 121*	*07/20/21 06:29*	*07/21/21 07:05*	*5*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.053		0.38	0.053	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluoropentanoic acid (PFPeA)	<0.15		0.38	0.15	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorohexanoic acid (PFHxA)	<0.080		0.38	0.080	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluoroheptanoic acid (PFHpA)	<0.055		0.38	0.055	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorooctanoic acid (PFOA)	**0.31**	**J**	0.38	0.16	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorononanoic acid (PFNA)	<0.068		0.38	0.068	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorodecanoic acid (PFDA)	**0.046**	**J**	0.38	0.042	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluoroundecanoic acid (PFUnA)	<0.068		0.38	0.068	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorododecanoic acid (PFDoA)	<0.13		0.38	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorotridecanoic acid (PFTrDA)	<0.097		0.38	0.097	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.10		0.38	0.10	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.047		0.38	0.047	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.038		0.38	0.038	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.059		0.38	0.059	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.066		0.38	0.066	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorooctanesulfonic acid (PFOS)	**0.87**	**J I**	0.95	0.38	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorononanesulfonic acid (PFNS)	<0.038		0.38	0.038	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.074		0.38	0.074	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.11		0.38	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
Perfluorooctanesulfonamide (FOSA)	**0.33**	**J**	0.38	0.16	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NEtFOSA	<0.045		0.38	0.045	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NMeFOSA	<0.078		0.38	0.078	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NMeFOSAA	<0.74		3.8	0.74	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NEtFOSAA	<0.70		3.8	0.70	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NMeFOSE	<0.13		0.38	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
NEtFOSE	<0.068		0.38	0.068	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
4:2 FTS	<0.70		3.8	0.70	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
6:2 FTS	<0.28		3.8	0.28	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
8:2 FTS	<0.47		3.8	0.47	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.034		0.38	0.034	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
HFPO-DA (GenX)	<0.21		0.47	0.21	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
9Cl-PF3ONS	<0.051		0.38	0.051	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1
11Cl-PF3OUdS	<0.042		0.38	0.042	ug/Kg	☼	07/13/21 19:40	07/15/21 04:26	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: PRE WEST SUMP
Date Collected: 07/07/21 12:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-7
Matrix: Solid
Percent Solids: 51.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	39		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C5 PFPeA	53		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 PFHxA	53		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C4 PFHpA	55		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C4 PFOA	53		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C5 PFNA	55		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 PFDA	52		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 PFUnA	54		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 PFDoA	45		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 PFTeDA	41		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C3 PFBS	56		25 - 150	07/13/21 19:40	07/15/21 04:26	1
18O2 PFHxS	50		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C4 PFOS	57		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C8 FOSA	53		10 - 150	07/13/21 19:40	07/15/21 04:26	1
d3-NMeFOSAA	51		25 - 150	07/13/21 19:40	07/15/21 04:26	1
d5-NEtFOSAA	49		25 - 150	07/13/21 19:40	07/15/21 04:26	1
d-N-MeFOSA-M	48		10 - 150	07/13/21 19:40	07/15/21 04:26	1
d-N-EtFOSA-M	42		10 - 150	07/13/21 19:40	07/15/21 04:26	1
d7-N-MeFOSE-M	40		10 - 150	07/13/21 19:40	07/15/21 04:26	1
d9-N-EtFOSE-M	40		10 - 150	07/13/21 19:40	07/15/21 04:26	1
M2-4:2 FTS	95		25 - 150	07/13/21 19:40	07/15/21 04:26	1
M2-6:2 FTS	126		25 - 150	07/13/21 19:40	07/15/21 04:26	1
M2-8:2 FTS	113		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C3 HFPO-DA	54		25 - 150	07/13/21 19:40	07/15/21 04:26	1
13C2 10:2 FTS	85		25 - 150	07/13/21 19:40	07/15/21 04:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		9.5	3.3	mg/Kg	☼	07/20/21 17:24	07/22/21 13:52	5
Barium	530		1.9	0.22	mg/Kg	☼	07/20/21 17:24	07/21/21 16:20	1
Cadmium	15	B	0.38	0.069	mg/Kg	☼	07/20/21 17:24	07/21/21 16:20	1
Chromium	160		1.9	0.94	mg/Kg	☼	07/20/21 17:24	07/21/21 16:20	1
Lead	82		4.8	2.2	mg/Kg	☼	07/20/21 17:24	07/22/21 13:52	5
Selenium	2.7		1.9	1.1	mg/Kg	☼	07/20/21 17:24	07/21/21 16:20	1
Silver	4.1	J	4.8	1.2	mg/Kg	☼	07/20/21 17:24	07/22/21 13:52	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	95		29	9.6	ug/Kg	☼	07/20/21 13:15	07/21/21 08:49	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: TS-01
Lab Sample ID: 500-202086-8
Date Collected: 07/08/21 08:20
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 89.8

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	☼	07/08/21 08:20	07/19/21 20:14	50
Bromobenzene	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Bromochloromethane	<26		61	26	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Bromoform	<29		61	29	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Bromomethane	<48	*+ F1	180	48	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
2-Butanone (MEK)	<130		300	130	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Chlorobenzene	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Chloroethane	<31	*+ F1	61	31	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Chloroform	<23		120	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Chloromethane	<19		61	19	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2-Dibromoethane	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Dibromomethane	<16		61	16	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
2,2-Dichloropropane	<27		61	27	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Ethylbenzene	<11		15	11	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Isopropyl ether	<17		61	17	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Methylene Chloride	<99		300	99	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Naphthalene	<20		61	20	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
p-Isopropyltoluene	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
sec-Butylbenzene	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Styrene	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Tetrachloroethene	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Toluene	<8.9		15	8.9	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50

Client Sample ID: TS-01
Date Collected: 07/08/21 08:20
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-8
Matrix: Solid
Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Trichloroethene	<10		30	10	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Trichlorofluoromethane	<26		61	26	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Vinyl chloride	<16		61	16	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50
Xylenes, Total	<13		30	13	ug/Kg	☼	07/08/21 08:20	07/19/21 20:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*	*07/08/21 08:20*	*07/19/21 20:14*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*07/08/21 08:20*	*07/19/21 20:14*	*50*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*07/08/21 08:20*	*07/19/21 20:14*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*07/08/21 08:20*	*07/19/21 20:14*	*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	☼	07/19/21 17:06	07/20/21 14:19	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Anthracene	<6.2		37	6.2	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Benzo[a]pyrene	<7.1	*3	37	7.1	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Benzo[b]fluoranthene	<8.0	*3	37	8.0	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Benzo[g,h,i]perylene	<12	*3	37	12	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Benzo[k]fluoranthene	<11	*3	37	11	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Chrysene	<10		37	10	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Dibenz(a,h)anthracene	<7.1	*3	37	7.1	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Fluoranthene	<6.8		37	6.8	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Indeno[1,2,3-cd]pyrene	<9.6	*3	37	9.6	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Phenanthrene	<5.1		37	5.1	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
Pyrene	<7.3		37	7.3	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
1-Methylnaphthalene	<9.0		74	9.0	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1
2-Methylnaphthalene	<6.8		74	6.8	ug/Kg	☼	07/19/21 17:06	07/20/21 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*07/19/21 17:06*	*07/20/21 14:19*	*1*
Terphenyl-d14 (Surr)	*116*		*42 - 157*	*07/19/21 17:06*	*07/20/21 14:19*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*07/19/21 17:06*	*07/20/21 14:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		18	7.0	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1
PCB-1221	<7.0		18	7.0	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1
PCB-1232	<4.8		18	4.8	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: TS-01
Date Collected: 07/08/21 08:20
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-8
Matrix: Solid
Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<6.9		18	6.9	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1
PCB-1248	<8.4		18	8.4	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1
PCB-1254	<6.0		18	6.0	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1
PCB-1260	<6.7		18	6.7	ug/Kg	☼	07/20/21 06:29	07/20/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*07/20/21 06:29*	*07/20/21 17:54*	*1*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*07/20/21 06:29*	*07/20/21 17:54*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.031		0.22	0.031	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluoropentanoic acid (PFPeA)	<0.085		0.22	0.085	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorohexanoic acid (PFHxA)	**0.046**	**J**	0.22	0.046	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluoroheptanoic acid (PFHpA)	<0.032		0.22	0.032	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorooctanoic acid (PFOA)	**0.16**	**J**	0.22	0.095	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorononanoic acid (PFNA)	<0.040		0.22	0.040	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorodecanoic acid (PFDA)	<0.024		0.22	0.024	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluoroundecanoic acid (PFUnA)	<0.040		0.22	0.040	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorododecanoic acid (PFDoA)	<0.074		0.22	0.074	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorotridecanoic acid (PFTrDA)	<0.056		0.22	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.060		0.22	0.060	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.028		0.22	0.028	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.022		0.22	0.022	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.034		0.22	0.034	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.039		0.22	0.039	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.22		0.55	0.22	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorononanesulfonic acid (PFNS)	<0.022		0.22	0.022	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.043		0.22	0.043	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.066		0.22	0.066	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
Perfluorooctanesulfonamide (FOSA)	<0.090		0.22	0.090	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NEtFOSA	<0.026		0.22	0.026	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NMeFOSA	<0.045		0.22	0.045	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NMeFOSAA	<0.43		2.2	0.43	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NEtFOSAA	<0.41		2.2	0.41	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NMeFOSE	<0.078		0.22	0.078	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
NEtFOSE	<0.040		0.22	0.040	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
4:2 FTS	<0.41		2.2	0.41	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
6:2 FTS	<0.17		2.2	0.17	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
8:2 FTS	<0.28		2.2	0.28	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.020		0.22	0.020	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
HFPO-DA (GenX)	<0.12		0.28	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
9Cl-PF3ONS	<0.030		0.22	0.030	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1
11Cl-PF3OUdS	<0.024		0.22	0.024	ug/Kg	☼	07/13/21 19:40	07/15/21 04:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*45*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C5 PFPeA	*49*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: TS-01
Date Collected: 07/08/21 08:20
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-8
Matrix: Solid
Percent Solids: 89.8

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C4 PFHpA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C4 PFOA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C5 PFNA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C2 PFDA	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C2 PFUnA	*44*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C2 PFDoA	*45*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C2 PFTeDA	*39*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C3 PFBS	*54*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
18O2 PFHxS	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C4 PFOS	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C8 FOSA	*52*		*10 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d3-NMeFOSAA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d5-NEtFOSAA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d-N-MeFOSA-M	*48*		*10 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d-N-EtFOSA-M	*47*		*10 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d7-N-MeFOSE-M	*28*		*10 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
d9-N-EtFOSE-M	*30*		*10 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
M2-4:2 FTS	*74*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
M2-6:2 FTS	*86*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
M2-8:2 FTS	*85*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C3 HFPO-DA	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*
13C2 10:2 FTS	*71*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.44**	**J**	0.99	0.34	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Barium	**17**		0.99	0.11	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Cadmium	**0.098**	**J B**	0.20	0.036	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Chromium	**5.6**		0.99	0.49	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Lead	**9.5**		0.50	0.23	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	07/20/21 17:24	07/21/21 16:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg	☼	07/20/21 13:15	07/21/21 08:52	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: TRIP BLANK
Date Collected: 07/07/21 00:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/19/21 13:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/19/21 13:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/19/21 13:35	1
Bromoform	<0.48		1.0	0.48	ug/L			07/19/21 13:35	1
Bromomethane	<0.80	*+	3.0	0.80	ug/L			07/19/21 13:35	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			07/19/21 13:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/19/21 13:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
Chloroethane	<0.51	*+	1.0	0.51	ug/L			07/19/21 13:35	1
Chloroform	<0.37		2.0	0.37	ug/L			07/19/21 13:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/19/21 13:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/19/21 13:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/19/21 13:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/19/21 13:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/19/21 13:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/19/21 13:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/19/21 13:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/19/21 13:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/19/21 13:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/19/21 13:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/19/21 13:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/19/21 13:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/19/21 13:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/19/21 13:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/19/21 13:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/19/21 13:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/19/21 13:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/19/21 13:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/19/21 13:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/19/21 13:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/19/21 13:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 13:35	1
Styrene	<0.39		1.0	0.39	ug/L			07/19/21 13:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 13:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/19/21 13:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/19/21 13:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/19/21 13:35	1
Toluene	<0.15		0.50	0.15	ug/L			07/19/21 13:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/19/21 13:35	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202086-9
Date Collected: 07/07/21 00:00
Matrix: Water
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/19/21 13:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/19/21 13:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/19/21 13:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/19/21 13:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/19/21 13:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/19/21 13:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/19/21 13:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/19/21 13:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/19/21 13:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/19/21 13:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/19/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*07/19/21 13:35*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 120*		*07/19/21 13:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*		*07/19/21 13:35*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*07/19/21 13:35*	*1*

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202086-10
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/09/21 09:30

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		07/07/21 00:00	07/19/21 14:01	50
Bromobenzene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Bromochloromethane	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Bromodichloromethane	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Bromoform	<24		50	24	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Bromomethane	<40	*+	150	40	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
2-Butanone (MEK)	<110		250	110	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Chlorobenzene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Chloroethane	<25	*+	50	25	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Chloroform	<19		100	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Chloromethane	<16		50	16	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Dibromochloromethane	<24		50	24	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Dibromomethane	<14		50	14	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Isopropylbenzene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Isopropyl ether	<14		50	14	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Methylene Chloride	<82		250	82	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Naphthalene	<17		50	17	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
n-Butylbenzene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
N-Propylbenzene	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Styrene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Tetrachloroethene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Toluene	<7.4		13	7.4	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202086-10
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Vinyl chloride	<13		50	13	ug/Kg		07/07/21 00:00	07/19/21 14:01	50
Xylenes, Total	<11		25	11	ug/Kg		07/07/21 00:00	07/19/21 14:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*07/07/21 00:00*	*07/19/21 14:01*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*07/07/21 00:00*	*07/19/21 14:01*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*07/07/21 00:00*	*07/19/21 14:01*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*07/07/21 00:00*	*07/19/21 14:01*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
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.
H	Sample was prepped or analyzed beyond the specified holding time
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.
¤	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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

GC/MS VOA

Prep Batch: 608761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	5035	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	5035	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	5035	
500-202086-8	TS-01	Total/NA	Solid	5035	
500-202086-10	TRIP BLANK	Total/NA	Solid	5035	
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	5035	
500-202086-8 MS	TS-01	Total/NA	Solid	5035	
500-202086-8 MSD	TS-01	Total/NA	Solid	5035	

Analysis Batch: 609467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	8260B	608761
MB 500-609467/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-609467/28	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 609670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-609670/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	8260B	608761

Analysis Batch: 609909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	8260B	608761
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	8260B	608761
500-202086-7	PRE WEST SUMP	Total/NA	Solid	8260B	608761
500-202086-8	TS-01	Total/NA	Solid	8260B	608761
500-202086-10	TRIP BLANK	Total/NA	Solid	8260B	608761
MB 500-609909/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-609909/4	Lab Control Sample	Total/NA	Solid	8260B	
500-202086-8 MS	TS-01	Total/NA	Solid	8260B	608761
500-202086-8 MSD	TS-01	Total/NA	Solid	8260B	608761

Analysis Batch: 609910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	8260B	
500-202086-2	LARGE SUMP	Total/NA	Water	8260B	
500-202086-3	WEST SUMP	Total/NA	Water	8260B	
500-202086-9	TRIP BLANK	Total/NA	Water	8260B	
MB 500-609910/6	Method Blank	Total/NA	Water	8260B	
LCS 500-609910/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 609019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	3510C	
500-202086-2	LARGE SUMP	Total/NA	Water	3510C	
500-202086-3	WEST SUMP	Total/NA	Water	3510C	
MB 500-609019/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-609019/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 609019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-609019/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 609090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-609019/1-A	Method Blank	Total/NA	Water	8270D	609019
LCS 500-609019/2-A	Lab Control Sample	Total/NA	Water	8270D	609019
LCSD 500-609019/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	609019

Analysis Batch: 609312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	8270D	609019
500-202086-2	LARGE SUMP	Total/NA	Water	8270D	609019
500-202086-3	WEST SUMP	Total/NA	Water	8270D	609019

Prep Batch: 610064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	3541	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	3541	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	3541	
500-202086-8	TS-01	Total/NA	Solid	3541	
MB 500-610064/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-610064/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 610159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-610064/1-A	Method Blank	Total/NA	Solid	8270D	610064
LCS 500-610064/2-A	Lab Control Sample	Total/NA	Solid	8270D	610064

Analysis Batch: 610178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	8270D	610064
500-202086-8	TS-01	Total/NA	Solid	8270D	610064

Analysis Batch: 610691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	8270D	610064
500-202086-7	PRE WEST SUMP	Total/NA	Solid	8270D	610064

GC Semi VOA

Prep Batch: 608898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	3510C	
500-202086-2	LARGE SUMP	Total/NA	Water	3510C	
500-202086-3	WEST SUMP	Total/NA	Water	3510C	
MB 500-608898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-608898/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 609160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	8082A	608898

GC Semi VOA (Continued)

Analysis Batch: 609160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-2	LARGE SUMP	Total/NA	Water	8082A	608898
500-202086-3	WEST SUMP	Total/NA	Water	8082A	608898
MB 500-608898/1-A	Method Blank	Total/NA	Water	8082A	608898
LCS 500-608898/2-A	Lab Control Sample	Total/NA	Water	8082A	608898

Prep Batch: 610096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	3541	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	3541	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	3541	
500-202086-8	TS-01	Total/NA	Solid	3541	
MB 500-610096/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-610096/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 610222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	8082A	610096
500-202086-8	TS-01	Total/NA	Solid	8082A	610096
MB 500-610096/1-A	Method Blank	Total/NA	Solid	8082A	610096
LCS 500-610096/3-A	Lab Control Sample	Total/NA	Solid	8082A	610096

Analysis Batch: 610307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	8082A	610096
500-202086-7	PRE WEST SUMP	Total/NA	Solid	8082A	610096

LCMS

Prep Batch: 506020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	3535	
500-202086-2	LARGE SUMP	Total/NA	Water	3535	
500-202086-3	WEST SUMP	Total/NA	Water	3535	
500-202086-4	FB-01	Total/NA	Water	3535	
MB 320-506020/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-506020/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-506020/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 506368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	SHAKE	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	SHAKE	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	SHAKE	
500-202086-8	TS-01	Total/NA	Solid	SHAKE	
MB 320-506368/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-506368/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 506671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	537 (modified)	506368
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	537 (modified)	506368

LCMS (Continued)

Analysis Batch: 506671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-7	PRE WEST SUMP	Total/NA	Solid	537 (modified)	506368
500-202086-8	TS-01	Total/NA	Solid	537 (modified)	506368

Analysis Batch: 507446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	537 (modified)	506020
500-202086-2	LARGE SUMP	Total/NA	Water	537 (modified)	506020
500-202086-3	WEST SUMP	Total/NA	Water	537 (modified)	506020
500-202086-4	FB-01	Total/NA	Water	537 (modified)	506020
MB 320-506020/1-A	Method Blank	Total/NA	Water	537 (modified)	506020
LCS 320-506020/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	506020
LCSD 320-506020/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	506020

Analysis Batch: 507469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-506368/1-A	Method Blank	Total/NA	Solid	537 (modified)	506368
LCS 320-506368/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	506368

Metals

Prep Batch: 608876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Dissolved	Water	7470A	
500-202086-2	LARGE SUMP	Dissolved	Water	7470A	
500-202086-3	WEST SUMP	Dissolved	Water	7470A	
MB 500-608876/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-608876/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 609066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Dissolved	Water	3005A	
500-202086-2	LARGE SUMP	Dissolved	Water	3005A	
500-202086-3	WEST SUMP	Dissolved	Water	3005A	
MB 500-609066/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-609066/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 609125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Dissolved	Water	7470A	608876
500-202086-2	LARGE SUMP	Dissolved	Water	7470A	608876
500-202086-3	WEST SUMP	Dissolved	Water	7470A	608876
MB 500-608876/12-A	Method Blank	Total/NA	Water	7470A	608876
LCS 500-608876/13-A	Lab Control Sample	Total/NA	Water	7470A	608876

Analysis Batch: 609341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Dissolved	Water	6020A	609066
500-202086-2	LARGE SUMP	Dissolved	Water	6020A	609066
500-202086-3	WEST SUMP	Dissolved	Water	6020A	609066
MB 500-609066/1-A	Method Blank	Total Recoverable	Water	6020A	609066
LCS 500-609066/2-A	Lab Control Sample	Total Recoverable	Water	6020A	609066

Metals

Prep Batch: 610134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	7471B	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	7471B	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	7471B	
500-202086-8	TS-01	Total/NA	Solid	7471B	
MB 500-610134/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-610134/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 610284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	3050B	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	3050B	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	3050B	
500-202086-8	TS-01	Total/NA	Solid	3050B	
MB 500-610284/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-610284/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 610424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	7471B	610134
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	7471B	610134
500-202086-7	PRE WEST SUMP	Total/NA	Solid	7471B	610134
500-202086-8	TS-01	Total/NA	Solid	7471B	610134
MB 500-610134/12-A	Method Blank	Total/NA	Solid	7471B	610134
LCS 500-610134/13-A	Lab Control Sample	Total/NA	Solid	7471B	610134

Analysis Batch: 610596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	6010B	610284
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	6010B	610284
500-202086-7	PRE WEST SUMP	Total/NA	Solid	6010B	610284
500-202086-8	TS-01	Total/NA	Solid	6010B	610284
MB 500-610284/1-A	Method Blank	Total/NA	Solid	6010B	610284
LCS 500-610284/2-A	Lab Control Sample	Total/NA	Solid	6010B	610284

Analysis Batch: 610699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	6010B	610284
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	6010B	610284
500-202086-7	PRE WEST SUMP	Total/NA	Solid	6010B	610284

Filtration Batch: 612337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-612337/1-E	Method Blank	Total/NA	Water	FILTRATION	

Prep Batch: 612590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total Recoverable	Water	3005A	
500-202086-2	LARGE SUMP	Total Recoverable	Water	3005A	
500-202086-3	WEST SUMP	Total Recoverable	Water	3005A	
MB 500-612590/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-612590/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Metals

Prep Batch: 612627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	7470A	
500-202086-2	LARGE SUMP	Total/NA	Water	7470A	
500-202086-3	WEST SUMP	Total/NA	Water	7470A	
MB 500-612337/1-E	Method Blank	Total/NA	Water	7470A	612337
MB 500-612627/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-612627/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 612831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total/NA	Water	7470A	612627
500-202086-2	LARGE SUMP	Total/NA	Water	7470A	612627
500-202086-3	WEST SUMP	Total/NA	Water	7470A	612627
MB 500-612337/1-E	Method Blank	Total/NA	Water	7470A	612627
MB 500-612627/12-A	Method Blank	Total/NA	Water	7470A	612627
LCS 500-612627/13-A	Lab Control Sample	Total/NA	Water	7470A	612627

Analysis Batch: 613065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-1	EAST SUMP	Total Recoverable	Water	6020A	612590
500-202086-2	LARGE SUMP	Total Recoverable	Water	6020A	612590
500-202086-3	WEST SUMP	Total Recoverable	Water	6020A	612590
MB 500-612590/1-A	Method Blank	Total Recoverable	Water	6020A	612590
LCS 500-612590/2-A	Lab Control Sample	Total Recoverable	Water	6020A	612590

General Chemistry

Analysis Batch: 609943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202086-5	PRE EAST SUMP	Total/NA	Solid	Moisture	
500-202086-6	PRE LARGE SUMP	Total/NA	Solid	Moisture	
500-202086-7	PRE WEST SUMP	Total/NA	Solid	Moisture	
500-202086-8	TS-01	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-202086-5	PRE EAST SUMP	96	108	110	102
500-202086-6	PRE LARGE SUMP	99	108	110	102
500-202086-7	PRE WEST SUMP	95	108	110	100
500-202086-8	TS-01	97	109	108	103
500-202086-8 MS	TS-01	93	99	101	108
500-202086-8 MSD	TS-01	94	99	99	106
500-202086-10	TRIP BLANK	100	106	107	102
LB3 500-608761/17-A	Method Blank	95	106	101	98
LCS 500-608761/18-A	Lab Control Sample	98	98	98	111
LCS 500-609467/28	Lab Control Sample	93	110	118	97
LCS 500-609909/4	Lab Control Sample	92	100	101	108
MB 500-609467/6	Method Blank	96	106	99	98
MB 500-609670/7	Method Blank	117	104	106	107
MB 500-609909/6	Method Blank	99	108	108	103

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-202086-1	EAST SUMP	96	107	108	103
500-202086-2	LARGE SUMP	95	110	110	99
500-202086-3	WEST SUMP	97	107	109	102
500-202086-9	TRIP BLANK	96	110	111	102
LCS 500-609910/4	Lab Control Sample	92	100	101	108
MB 500-609910/6	Method Blank	99	108	108	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)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(37-147)	(42-157)	(43-145)
500-202086-5	PRE EAST SUMP	84	192 S1+	124
500-202086-6	PRE LARGE SUMP	67	86	71
500-202086-7	PRE WEST SUMP	82	90	89
500-202086-8	TS-01	63	116	84
LCS 500-610064/2-A	Lab Control Sample	97	103	94

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(37-147)	(42-157)	(43-145)
MB 500-610064/1-A	Method Blank	89	103	90

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(36-120)	(40-145)	(34-110)
500-202086-1	EAST SUMP	58	107	75
500-202086-2	LARGE SUMP	56	107	72
500-202086-3	WEST SUMP	64	103	77
LCS 500-609019/2-A	Lab Control Sample	69	106	75
LCSD 500-609019/3-A	Lab Control Sample Dup	50	111	59
MB 500-609019/1-A	Method Blank	61	99	62

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-202086-5	PRE EAST SUMP	98	124 S1+
500-202086-6	PRE LARGE SUMP	67	57
500-202086-7	PRE WEST SUMP	79	1677 S1+
500-202086-8	TS-01	70	50
LCS 500-610096/3-A	Lab Control Sample	98	114
MB 500-610096/1-A	Method Blank	100	112

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-202086-1	EAST SUMP	67	102
500-202086-2	LARGE SUMP	69	109
500-202086-3	WEST SUMP	60	81
LCS 500-608898/2-A	Lab Control Sample	56	109
MB 500-608898/1-A	Method Blank	74	108

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromochloromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromodichloromethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromoform	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromomethane	<40		150	40	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2-Butanone (MEK)	<110		250	110	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chlorobenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroethane	<25		50	25	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroform	<19		100	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloromethane	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromochloromethane	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromomethane	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropyl ether	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methylene Chloride	<82		250	82	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Naphthalene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
n-Butylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
N-Propylbenzene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Styrene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Tetrachloroethene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Toluene	<7.4		13	7.4	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

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

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trichlorobenzene	19.7	J	50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Vinyl chloride	<13		50	13	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Xylenes, Total	<11		25	11	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*07/11/21 18:50*	*07/15/21 11:52*	*50*

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2180		ug/Kg		87	70 - 120
Bromobenzene	2500	2270		ug/Kg		91	70 - 122
Bromochloromethane	2500	2120		ug/Kg		85	65 - 122
Bromodichloromethane	2500	2390		ug/Kg		96	69 - 120
Bromoform	2500	2630		ug/Kg		105	56 - 132
Bromomethane	2500	2100		ug/Kg		84	40 - 152
2-Butanone (MEK)	2500	2100		ug/Kg		84	46 - 144
Carbon tetrachloride	2500	2560		ug/Kg		103	59 - 133
Chlorobenzene	2500	2290		ug/Kg		92	70 - 120
Chloroethane	2500	2150		ug/Kg		86	48 - 136
Chloroform	2500	2370		ug/Kg		95	70 - 120
Chloromethane	2500	1770		ug/Kg		71	56 - 152
2-Chlorotoluene	2500	2360		ug/Kg		95	70 - 125
4-Chlorotoluene	2500	2340		ug/Kg		93	68 - 124
cis-1,2-Dichloroethene	2500	2250		ug/Kg		90	70 - 125
cis-1,3-Dichloropropene	2500	2390		ug/Kg		96	64 - 127
Dibromochloromethane	2500	2520		ug/Kg		101	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2040		ug/Kg		82	56 - 123
1,2-Dibromoethane	2500	2180		ug/Kg		87	70 - 125
Dibromomethane	2500	2070		ug/Kg		83	70 - 120
1,2-Dichlorobenzene	2500	2100		ug/Kg		84	70 - 125
1,3-Dichlorobenzene	2500	2220		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	2500	2170		ug/Kg		87	70 - 120

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

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	2500	1060		ug/Kg		43	40 - 159
1,1-Dichloroethane	2500	2530		ug/Kg		101	70 - 125
1,2-Dichloroethane	2500	2370		ug/Kg		95	68 - 127
1,1-Dichloroethene	2500	2020		ug/Kg		81	67 - 122
1,2-Dichloropropane	2500	2360		ug/Kg		94	67 - 130
1,3-Dichloropropane	2500	2260		ug/Kg		90	62 - 136
2,2-Dichloropropane	2500	3160		ug/Kg		127	58 - 139
1,1-Dichloropropene	2500	2520		ug/Kg		101	70 - 121
Ethylbenzene	2500	2470		ug/Kg		99	70 - 123
Hexachlorobutadiene	2500	3300		ug/Kg		132	51 - 150
Isopropylbenzene	2500	2380		ug/Kg		95	70 - 126
Methylene Chloride	2500	2080		ug/Kg		83	69 - 125
Methyl tert-butyl ether	2500	1890		ug/Kg		75	55 - 123
Naphthalene	2500	1860		ug/Kg		74	53 - 144
n-Butylbenzene	2500	2580		ug/Kg		103	68 - 125
N-Propylbenzene	2500	2410		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 125
sec-Butylbenzene	2500	2380		ug/Kg		95	70 - 123
Styrene	2500	2350		ug/Kg		94	70 - 120
tert-Butylbenzene	2500	2370		ug/Kg		95	70 - 121
1,1,1,2-Tetrachloroethane	2500	2650		ug/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	2500	2050		ug/Kg		82	62 - 140
Tetrachloroethene	2500	2730		ug/Kg		109	70 - 128
Toluene	2500	2450		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	2500	2320		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	2500	2350		ug/Kg		94	62 - 128
1,2,3-Trichlorobenzene	2500	2390		ug/Kg		95	51 - 145
1,2,4-Trichlorobenzene	2500	2500		ug/Kg		100	57 - 137
1,1,1-Trichloroethane	2500	2890		ug/Kg		115	70 - 125
1,1,2-Trichloroethane	2500	2150		ug/Kg		86	71 - 130
Trichloroethene	2500	2260		ug/Kg		90	70 - 125
Trichlorofluoromethane	2500	2270		ug/Kg		91	55 - 128
1,2,3-Trichloropropane	2500	2140		ug/Kg		86	50 - 133
1,2,4-Trimethylbenzene	2500	2340		ug/Kg		94	70 - 123
1,3,5-Trimethylbenzene	2500	2380		ug/Kg		95	70 - 123
Vinyl chloride	2500	1930		ug/Kg		77	64 - 126
Xylenes, Total	5000	5060		ug/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
Toluene-d8 (Surr)	*111*		*75 - 120*

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

Lab Sample ID: 500-202086-8 MS
Matrix: Solid
Analysis Batch: 609909

Client Sample ID: TS-01
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<8.9		3040	3040		ug/Kg	☼	100	70 - 120
Bromobenzene	<22		3040	2880		ug/Kg	☼	95	70 - 122
Bromochloromethane	<26		3040	2950		ug/Kg	☼	97	65 - 122
Bromodichloromethane	<23		3040	2890		ug/Kg	☼	95	69 - 120
Bromoform	<29		3040	3030		ug/Kg	☼	100	56 - 132
Bromomethane	<48	*+ F1	3040	5020	F1	ug/Kg	☼	165	40 - 152
2-Butanone (MEK)	<130		3040	2890		ug/Kg	☼	95	46 - 144
Carbon tetrachloride	<23		3040	2880		ug/Kg	☼	95	59 - 133
Chlorobenzene	<23		3040	3200		ug/Kg	☼	105	70 - 120
Chloroethane	<31	*+ F1	3040	4970	F1	ug/Kg	☼	163	48 - 136
Chloroform	<23		3040	3020		ug/Kg	☼	99	70 - 120
Chloromethane	<19		3040	3300		ug/Kg	☼	108	56 - 152
2-Chlorotoluene	<19		3040	3080		ug/Kg	☼	101	70 - 125
4-Chlorotoluene	<21		3040	3160		ug/Kg	☼	104	68 - 124
cis-1,2-Dichloroethene	<25		3040	2900		ug/Kg	☼	95	70 - 125
cis-1,3-Dichloropropene	<25		3040	2950		ug/Kg	☼	97	64 - 127
Dibromochloromethane	<30		3040	3020		ug/Kg	☼	99	68 - 125
1,2-Dibromo-3-Chloropropane	<120		3040	3410		ug/Kg	☼	112	56 - 123
1,2-Dibromoethane	<23		3040	3140		ug/Kg	☼	103	70 - 125
Dibromomethane	<16		3040	3010		ug/Kg	☼	99	70 - 120
1,2-Dichlorobenzene	<20		3040	3080		ug/Kg	☼	101	70 - 125
1,3-Dichlorobenzene	<24		3040	2930		ug/Kg	☼	96	70 - 125
1,4-Dichlorobenzene	<22		3040	2990		ug/Kg	☼	98	70 - 120
Dichlorodifluoromethane	<41		3040	3870		ug/Kg	☼	127	40 - 159
1,1-Dichloroethane	<25		3040	3080		ug/Kg	☼	101	70 - 125
1,2-Dichloroethane	<24		3040	3010		ug/Kg	☼	99	68 - 127
1,1-Dichloroethene	<24		3040	3140		ug/Kg	☼	103	67 - 122
1,2-Dichloropropane	<26		3040	2870		ug/Kg	☼	94	67 - 130
1,3-Dichloropropane	<22		3040	3250		ug/Kg	☼	107	62 - 136
2,2-Dichloropropane	<27		3040	2850		ug/Kg	☼	94	58 - 139
1,1-Dichloropropene	<18		3040	2850		ug/Kg	☼	94	70 - 121
Ethylbenzene	<11		3040	3100		ug/Kg	☼	102	70 - 123
Hexachlorobutadiene	<27		3040	3300		ug/Kg	☼	109	51 - 150
Isopropylbenzene	<23		3040	2950		ug/Kg	☼	97	70 - 126
Methylene Chloride	<99		3040	3290		ug/Kg	☼	108	69 - 125
Methyl tert-butyl ether	<24		3040	2840		ug/Kg	☼	93	55 - 123
Naphthalene	<20		3040	2750		ug/Kg	☼	90	53 - 144
n-Butylbenzene	<24		3040	3160		ug/Kg	☼	104	68 - 125
N-Propylbenzene	<25		3040	3120		ug/Kg	☼	103	69 - 127
p-Isopropyltoluene	<22		3040	3000		ug/Kg	☼	99	70 - 125
sec-Butylbenzene	<24		3040	3070		ug/Kg	☼	101	70 - 123
Styrene	<23		3040	3180		ug/Kg	☼	105	70 - 120
tert-Butylbenzene	<24		3040	2880		ug/Kg	☼	95	70 - 121
1,1,1,2-Tetrachloroethane	<28		3040	3190		ug/Kg	☼	105	70 - 125
1,1,2,2-Tetrachloroethane	<24		3040	3300		ug/Kg	☼	109	62 - 140
Tetrachloroethene	<23		3040	3140		ug/Kg	☼	103	70 - 128
Toluene	<8.9		3040	3260		ug/Kg	☼	107	70 - 125
trans-1,2-Dichloroethene	<21		3040	3220		ug/Kg	☼	106	70 - 125

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

Lab Sample ID: 500-202086-8 MS
Matrix: Solid
Analysis Batch: 609909

Client Sample ID: TS-01
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	<22		3040	2840		ug/Kg	☼	93	62 - 128
1,2,3-Trichlorobenzene	<28		3040	3010		ug/Kg	☼	99	51 - 145
1,2,4-Trichlorobenzene	<21		3040	2730		ug/Kg	☼	90	57 - 137
1,1,1-Trichloroethane	<23		3040	3020		ug/Kg	☼	99	70 - 125
1,1,2-Trichloroethane	<21		3040	3300		ug/Kg	☼	109	71 - 130
Trichloroethene	<10		3040	2690		ug/Kg	☼	89	70 - 125
Trichlorofluoromethane	<26		3040	3440		ug/Kg	☼	113	55 - 128
1,2,3-Trichloropropane	<25		3040	3340		ug/Kg	☼	110	50 - 133
1,2,4-Trimethylbenzene	<22		3040	3100		ug/Kg	☼	102	70 - 123
1,3,5-Trimethylbenzene	<23		3040	3100		ug/Kg	☼	102	70 - 123
Vinyl chloride	<16		3040	3400		ug/Kg	☼	112	64 - 126
Xylenes, Total	<13		6080	6130		ug/Kg	☼	101	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*108*		*75 - 120*

Lab Sample ID: 500-202086-8 MSD
Matrix: Solid
Analysis Batch: 609909

Client Sample ID: TS-01
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<8.9		3040	2820		ug/Kg	☼	93	70 - 120	8	30
Bromobenzene	<22		3040	2740		ug/Kg	☼	90	70 - 122	5	30
Bromochloromethane	<26		3040	2620		ug/Kg	☼	86	65 - 122	12	30
Bromodichloromethane	<23		3040	2640		ug/Kg	☼	87	69 - 120	9	30
Bromoform	<29		3040	2800		ug/Kg	☼	92	56 - 132	8	30
Bromomethane	<48	*+ F1	3040	4780	F1	ug/Kg	☼	157	40 - 152	5	30
2-Butanone (MEK)	<130		3040	2670		ug/Kg	☼	88	46 - 144	8	30
Carbon tetrachloride	<23		3040	2590		ug/Kg	☼	85	59 - 133	11	30
Chlorobenzene	<23		3040	2930		ug/Kg	☼	96	70 - 120	9	30
Chloroethane	<31	*+ F1	3040	4730	F1	ug/Kg	☼	155	48 - 136	5	30
Chloroform	<23		3040	2780		ug/Kg	☼	92	70 - 120	8	30
Chloromethane	<19		3040	3210		ug/Kg	☼	105	56 - 152	3	30
2-Chlorotoluene	<19		3040	2900		ug/Kg	☼	95	70 - 125	6	30
4-Chlorotoluene	<21		3040	2980		ug/Kg	☼	98	68 - 124	6	30
cis-1,2-Dichloroethene	<25		3040	2660		ug/Kg	☼	88	70 - 125	8	30
cis-1,3-Dichloropropene	<25		3040	2750		ug/Kg	☼	91	64 - 127	7	30
Dibromochloromethane	<30		3040	2730		ug/Kg	☼	90	68 - 125	10	30
1,2-Dibromo-3-Chloropropane	<120		3040	2900		ug/Kg	☼	95	56 - 123	16	30
1,2-Dibromoethane	<23		3040	2940		ug/Kg	☼	97	70 - 125	7	30
Dibromomethane	<16		3040	2770		ug/Kg	☼	91	70 - 120	8	30
1,2-Dichlorobenzene	<20		3040	2900		ug/Kg	☼	95	70 - 125	6	30
1,3-Dichlorobenzene	<24		3040	2810		ug/Kg	☼	92	70 - 125	4	30
1,4-Dichlorobenzene	<22		3040	2850		ug/Kg	☼	94	70 - 120	5	30
Dichlorodifluoromethane	<41		3040	3830		ug/Kg	☼	126	40 - 159	1	30

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

Lab Sample ID: 500-202086-8 MSD
Matrix: Solid
Analysis Batch: 609909

Client Sample ID: TS-01
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	<25		3040	2770		ug/Kg	☼	91	70 - 125	11	30
1,2-Dichloroethane	<24		3040	2820		ug/Kg	☼	93	68 - 127	7	30
1,1-Dichloroethene	<24		3040	2770		ug/Kg	☼	91	67 - 122	13	30
1,2-Dichloropropane	<26		3040	2770		ug/Kg	☼	91	67 - 130	4	30
1,3-Dichloropropane	<22		3040	3030		ug/Kg	☼	99	62 - 136	7	30
2,2-Dichloropropane	<27		3040	2590		ug/Kg	☼	85	58 - 139	9	30
1,1-Dichloropropene	<18		3040	2630		ug/Kg	☼	87	70 - 121	8	30
Ethylbenzene	<11		3040	2880		ug/Kg	☼	95	70 - 123	7	30
Hexachlorobutadiene	<27		3040	3020		ug/Kg	☼	99	51 - 150	9	30
Isopropylbenzene	<23		3040	2760		ug/Kg	☼	91	70 - 126	7	30
Methylene Chloride	<99		3040	2900		ug/Kg	☼	95	69 - 125	13	30
Methyl tert-butyl ether	<24		3040	2530		ug/Kg	☼	83	55 - 123	11	30
Naphthalene	<20		3040	2510		ug/Kg	☼	83	53 - 144	9	30
n-Butylbenzene	<24		3040	2910		ug/Kg	☼	96	68 - 125	8	30
N-Propylbenzene	<25		3040	2950		ug/Kg	☼	97	69 - 127	6	30
p-Isopropyltoluene	<22		3040	2780		ug/Kg	☼	91	70 - 125	8	30
sec-Butylbenzene	<24		3040	2840		ug/Kg	☼	94	70 - 123	8	30
Styrene	<23		3040	2910		ug/Kg	☼	96	70 - 120	9	30
tert-Butylbenzene	<24		3040	2700		ug/Kg	☼	89	70 - 121	6	30
1,1,1,2-Tetrachloroethane	<28		3040	2790		ug/Kg	☼	92	70 - 125	13	30
1,1,2,2-Tetrachloroethane	<24		3040	3070		ug/Kg	☼	101	62 - 140	7	30
Tetrachloroethene	<23		3040	2840		ug/Kg	☼	93	70 - 128	10	30
Toluene	<8.9		3040	2940		ug/Kg	☼	97	70 - 125	10	30
trans-1,2-Dichloroethene	<21		3040	2830		ug/Kg	☼	93	70 - 125	13	30
trans-1,3-Dichloropropene	<22		3040	2690		ug/Kg	☼	88	62 - 128	5	30
1,2,3-Trichlorobenzene	<28		3040	2720		ug/Kg	☼	90	51 - 145	10	30
1,2,4-Trichlorobenzene	<21		3040	2520		ug/Kg	☼	83	57 - 137	8	30
1,1,1-Trichloroethane	<23		3040	2700		ug/Kg	☼	89	70 - 125	11	30
1,1,2-Trichloroethane	<21		3040	3080		ug/Kg	☼	101	71 - 130	7	30
Trichloroethene	<10		3040	2490		ug/Kg	☼	82	70 - 125	8	30
Trichlorofluoromethane	<26		3040	3310		ug/Kg	☼	109	55 - 128	4	30
1,2,3-Trichloropropane	<25		3040	3140		ug/Kg	☼	103	50 - 133	6	30
1,2,4-Trimethylbenzene	<22		3040	2900		ug/Kg	☼	95	70 - 123	7	30
1,3,5-Trimethylbenzene	<23		3040	2880		ug/Kg	☼	95	70 - 123	7	30
Vinyl chloride	<16		3040	3290		ug/Kg	☼	108	64 - 126	3	30
Xylenes, Total	<13		6080	5550		ug/Kg	☼	91	70 - 125	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*
Toluene-d8 (Surr)	*106*		*75 - 120*

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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			07/15/21 11:25	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/15/21 11:25	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/15/21 11:25	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/Kg			07/15/21 11:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/15/21 11:25	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/15/21 11:25	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/15/21 11:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/15/21 11:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/15/21 11:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/15/21 11:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/15/21 11:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/15/21 11:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/15/21 11:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/15/21 11:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/15/21 11:25	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/15/21 11:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/15/21 11:25	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/15/21 11:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/15/21 11:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Naphthalene	0.382	J	1.0	0.33	ug/Kg			07/15/21 11:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/15/21 11:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/15/21 11:25	1

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/15/21 11:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/15/21 11:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/15/21 11:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/15/21 11:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/15/21 11:25	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/15/21 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*07/15/21 11:25*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*07/15/21 11:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*07/15/21 11:25*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*07/15/21 11:25*	*1*

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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	50.9		ug/Kg		102	70 - 120
Bromobenzene	50.0	51.6		ug/Kg		103	70 - 122
Bromochloromethane	50.0	60.3		ug/Kg		121	65 - 122
Bromodichloromethane	50.0	55.9		ug/Kg		112	69 - 120
Bromoform	50.0	66.6	*+	ug/Kg		133	56 - 132
Bromomethane	50.0	49.3		ug/Kg		99	40 - 152
2-Butanone (MEK)	50.0	55.2		ug/Kg		110	46 - 144
Carbon tetrachloride	50.0	46.7		ug/Kg		93	59 - 133
Chlorobenzene	50.0	53.3		ug/Kg		107	70 - 120
Chloroethane	50.0	51.8		ug/Kg		104	48 - 136
Chloroform	50.0	53.5		ug/Kg		107	70 - 120
Chloromethane	50.0	43.5		ug/Kg		87	56 - 152
2-Chlorotoluene	50.0	45.9		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	48.1		ug/Kg		96	68 - 124
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	64 - 127
Dibromochloromethane	50.0	57.8		ug/Kg		116	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	60.3		ug/Kg		121	56 - 123
1,2-Dibromoethane	50.0	64.0	*+	ug/Kg		128	70 - 125
Dibromomethane	50.0	64.8	*+	ug/Kg		130	70 - 120
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 125
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 120

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

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	50.3		ug/Kg		101	40 - 159
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 125
1,2-Dichloroethane	50.0	58.6		ug/Kg		117	68 - 127
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	67 - 122
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	67 - 130
1,3-Dichloropropane	50.0	61.6		ug/Kg		123	62 - 136
2,2-Dichloropropane	50.0	47.0		ug/Kg		94	58 - 139
1,1-Dichloropropene	50.0	45.0		ug/Kg		90	70 - 121
Ethylbenzene	50.0	46.9		ug/Kg		94	70 - 123
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	51 - 150
Isopropylbenzene	50.0	41.8		ug/Kg		84	70 - 126
Methylene Chloride	50.0	58.7		ug/Kg		117	69 - 125
Methyl tert-butyl ether	50.0	57.5		ug/Kg		115	55 - 123
Naphthalene	50.0	54.4		ug/Kg		109	53 - 144
n-Butylbenzene	50.0	43.6		ug/Kg		87	68 - 125
N-Propylbenzene	50.0	44.5		ug/Kg		89	69 - 127
p-Isopropyltoluene	50.0	42.8		ug/Kg		86	70 - 125
sec-Butylbenzene	50.0	41.9		ug/Kg		84	70 - 123
Styrene	50.0	53.0		ug/Kg		106	70 - 120
tert-Butylbenzene	50.0	40.8		ug/Kg		82	70 - 121
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	61.3		ug/Kg		123	62 - 140
Tetrachloroethene	50.0	48.0		ug/Kg		96	70 - 128
Toluene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	54.1		ug/Kg		108	62 - 128
1,2,3-Trichlorobenzene	50.0	53.7		ug/Kg		107	51 - 145
1,2,4-Trichlorobenzene	50.0	50.6		ug/Kg		101	57 - 137
1,1,1-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	50.0	63.3		ug/Kg		127	71 - 130
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	55 - 128
1,2,3-Trichloropropane	50.0	64.0		ug/Kg		128	50 - 133
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
1,3,5-Trimethylbenzene	50.0	44.7		ug/Kg		89	70 - 123
Vinyl chloride	50.0	48.7		ug/Kg		97	64 - 126
Xylenes, Total	100	94.2		ug/Kg		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane (Surr)	*110*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 120*

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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			07/16/21 11:14	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/16/21 11:14	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/16/21 11:14	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/Kg			07/16/21 11:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/16/21 11:14	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/16/21 11:14	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/16/21 11:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/16/21 11:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/16/21 11:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/16/21 11:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/16/21 11:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/16/21 11:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/16/21 11:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/16/21 11:14	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/16/21 11:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/16/21 11:14	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/16/21 11:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/16/21 11:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/16/21 11:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/16/21 11:14	1

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/16/21 11:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/16/21 11:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/16/21 11:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/16/21 11:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/16/21 11:14	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/16/21 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*07/16/21 11:14*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*07/16/21 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*07/16/21 11:14*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*07/16/21 11:14*	*1*

Lab Sample ID: MB 500-609909/6
Matrix: Solid
Analysis Batch: 609909

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			07/19/21 12:41	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/19/21 12:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/19/21 12:41	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/19/21 12:41	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/19/21 12:41	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/Kg			07/19/21 12:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/19/21 12:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/19/21 12:41	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/19/21 12:41	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/19/21 12:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/19/21 12:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/19/21 12:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/19/21 12:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/19/21 12:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/19/21 12:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/19/21 12:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/19/21 12:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/19/21 12:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/19/21 12:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1

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

Lab Sample ID: MB 500-609909/6
Matrix: Solid
Analysis Batch: 609909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/19/21 12:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/19/21 12:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/19/21 12:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/19/21 12:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/19/21 12:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/19/21 12:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/19/21 12:41	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/19/21 12:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/19/21 12:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/19/21 12:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/19/21 12:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/19/21 12:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/19/21 12:41	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/19/21 12:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/19/21 12:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/19/21 12:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/19/21 12:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/19/21 12:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/19/21 12:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/19/21 12:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/19/21 12:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/19/21 12:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/19/21 12:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/19/21 12:41	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/19/21 12:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/19/21 12:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/19/21 12:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/19/21 12:41	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/19/21 12:41	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/19/21 12:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/19/21 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*07/19/21 12:41*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*07/19/21 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*07/19/21 12:41*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/19/21 12:41*	*1*

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

Lab Sample ID: LCS 500-609909/4
Matrix: Solid
Analysis Batch: 609909

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	50.6		ug/Kg		101	70 - 120
Bromobenzene	50.0	47.8		ug/Kg		96	70 - 122
Bromochloromethane	50.0	48.6		ug/Kg		97	65 - 122
Bromodichloromethane	50.0	47.2		ug/Kg		94	69 - 120
Bromoform	50.0	50.5		ug/Kg		101	56 - 132
Bromomethane	50.0	79.3	*+	ug/Kg		159	40 - 152
2-Butanone (MEK)	50.0	45.9		ug/Kg		92	46 - 144
Carbon tetrachloride	50.0	48.6		ug/Kg		97	59 - 133
Chlorobenzene	50.0	52.2		ug/Kg		104	70 - 120
Chloroethane	50.0	79.2	*+	ug/Kg		158	48 - 136
Chloroform	50.0	50.5		ug/Kg		101	70 - 120
Chloromethane	50.0	52.1		ug/Kg		104	56 - 152
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
4-Chlorotoluene	50.0	51.5		ug/Kg		103	68 - 124
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	64 - 127
Dibromochloromethane	50.0	50.0		ug/Kg		100	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/Kg		109	56 - 123
1,2-Dibromoethane	50.0	51.5		ug/Kg		103	70 - 125
Dibromomethane	50.0	50.2		ug/Kg		100	70 - 120
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	61.6		ug/Kg		123	40 - 159
1,1-Dichloroethane	50.0	51.2		ug/Kg		102	70 - 125
1,2-Dichloroethane	50.0	50.8		ug/Kg		102	68 - 127
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	67 - 122
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	67 - 130
1,3-Dichloropropane	50.0	52.8		ug/Kg		106	62 - 136
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	58 - 139
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 121
Ethylbenzene	50.0	51.4		ug/Kg		103	70 - 123
Hexachlorobutadiene	50.0	56.8		ug/Kg		114	51 - 150
Isopropylbenzene	50.0	49.9		ug/Kg		100	70 - 126
Methylene Chloride	50.0	54.3		ug/Kg		109	69 - 125
Methyl tert-butyl ether	50.0	48.2		ug/Kg		96	55 - 123
Naphthalene	50.0	50.4		ug/Kg		101	53 - 144
n-Butylbenzene	50.0	53.7		ug/Kg		107	68 - 125
N-Propylbenzene	50.0	52.2		ug/Kg		104	69 - 127
p-Isopropyltoluene	50.0	51.0		ug/Kg		102	70 - 125
sec-Butylbenzene	50.0	51.6		ug/Kg		103	70 - 123
Styrene	50.0	52.1		ug/Kg		104	70 - 120
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 125
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	62 - 140
Tetrachloroethene	50.0	53.2		ug/Kg		106	70 - 128
Toluene	50.0	54.8		ug/Kg		110	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	70 - 125

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

Lab Sample ID: LCS 500-609909/4
Matrix: Solid
Analysis Batch: 609909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	46.5		ug/Kg		93	62 - 128
1,2,3-Trichlorobenzene	50.0	54.1		ug/Kg		108	51 - 145
1,2,4-Trichlorobenzene	50.0	49.9		ug/Kg		100	57 - 137
1,1,1-Trichloroethane	50.0	50.1		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	54.1		ug/Kg		108	71 - 130
Trichloroethene	50.0	45.7		ug/Kg		91	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/Kg		110	55 - 128
1,2,3-Trichloropropane	50.0	53.0		ug/Kg		106	50 - 133
1,2,4-Trimethylbenzene	50.0	51.6		ug/Kg		103	70 - 123
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 123
Vinyl chloride	50.0	54.1		ug/Kg		108	64 - 126
Xylenes, Total	100	101		ug/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*108*		*75 - 120*

Lab Sample ID: MB 500-609910/6
Matrix: Water
Analysis Batch: 609910

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		0.50	0.15	ug/L			07/19/21 12:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/19/21 12:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/19/21 12:41	1
Bromoform	<0.48		1.0	0.48	ug/L			07/19/21 12:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/19/21 12:41	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			07/19/21 12:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/19/21 12:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/19/21 12:41	1
Chloroform	<0.37		2.0	0.37	ug/L			07/19/21 12:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/19/21 12:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/19/21 12:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/19/21 12:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/19/21 12:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/19/21 12:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/19/21 12:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/19/21 12:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/19/21 12:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/19/21 12:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/19/21 12:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/19/21 12:41	1

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

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

Lab Sample ID: MB 500-609910/6
Matrix: Water
Analysis Batch: 609910

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/19/21 12:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/19/21 12:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/19/21 12:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/19/21 12:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/19/21 12:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/19/21 12:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/19/21 12:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/19/21 12:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/19/21 12:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/19/21 12:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 12:41	1
Styrene	<0.39		1.0	0.39	ug/L			07/19/21 12:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/19/21 12:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/19/21 12:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/19/21 12:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/19/21 12:41	1
Toluene	<0.15		0.50	0.15	ug/L			07/19/21 12:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/19/21 12:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/19/21 12:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/19/21 12:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/19/21 12:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/19/21 12:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/19/21 12:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/19/21 12:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/19/21 12:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/19/21 12:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/19/21 12:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/19/21 12:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/19/21 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*07/19/21 12:41*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*07/19/21 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*07/19/21 12:41*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/19/21 12:41*	*1*

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

Lab Sample ID: LCS 500-609910/4
Matrix: Water
Analysis Batch: 609910

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	50.6		ug/L		101	70 - 120
Bromobenzene	50.0	47.8		ug/L		96	70 - 122
Bromochloromethane	50.0	48.6		ug/L		97	65 - 122
Bromodichloromethane	50.0	47.2		ug/L		94	69 - 120
Bromoform	50.0	50.5		ug/L		101	56 - 132
Bromomethane	50.0	79.3	*+	ug/L		159	40 - 152
2-Butanone (MEK)	50.0	45.9		ug/L		92	46 - 144
Carbon tetrachloride	50.0	48.6		ug/L		97	59 - 133
Chlorobenzene	50.0	52.2		ug/L		104	70 - 120
Chloroethane	50.0	79.2	*+	ug/L		158	48 - 136
Chloroform	50.0	50.5		ug/L		101	70 - 120
Chloromethane	50.0	52.1		ug/L		104	56 - 152
2-Chlorotoluene	50.0	51.4		ug/L		103	70 - 125
4-Chlorotoluene	50.0	51.5		ug/L		103	68 - 124
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 125
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	64 - 127
Dibromochloromethane	50.0	50.0		ug/L		100	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/L		109	56 - 123
1,2-Dibromoethane	50.0	51.5		ug/L		103	70 - 125
Dibromomethane	50.0	50.2		ug/L		100	70 - 120
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 125
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	61.6		ug/L		123	40 - 159
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 125
1,2-Dichloroethane	50.0	50.8		ug/L		102	68 - 127
1,1-Dichloroethene	50.0	53.2		ug/L		106	67 - 122
1,2-Dichloropropane	50.0	48.2		ug/L		96	67 - 130
1,3-Dichloropropane	50.0	52.8		ug/L		106	62 - 136
2,2-Dichloropropane	50.0	48.6		ug/L		97	58 - 139
1,1-Dichloropropene	50.0	48.4		ug/L		97	70 - 121
Ethylbenzene	50.0	51.4		ug/L		103	70 - 123
Hexachlorobutadiene	50.0	56.8		ug/L		114	51 - 150
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 126
Methylene Chloride	50.0	54.3		ug/L		109	69 - 125
Methyl tert-butyl ether	50.0	48.2		ug/L		96	55 - 123
Naphthalene	50.0	50.4		ug/L		101	53 - 144
n-Butylbenzene	50.0	53.7		ug/L		107	68 - 125
N-Propylbenzene	50.0	52.2		ug/L		104	69 - 127
p-Isopropyltoluene	50.0	51.0		ug/L		102	70 - 125
sec-Butylbenzene	50.0	51.6		ug/L		103	70 - 123
Styrene	50.0	52.1		ug/L		104	70 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/L		107	70 - 125
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/L		106	62 - 140
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 128
Toluene	50.0	54.8		ug/L		110	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/L		108	70 - 125

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

Lab Sample ID: LCS 500-609910/4
Matrix: Water
Analysis Batch: 609910

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	62 - 128
1,2,3-Trichlorobenzene	50.0	54.1		ug/L		108	51 - 145
1,2,4-Trichlorobenzene	50.0	49.9		ug/L		100	57 - 137
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 125
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	71 - 130
Trichloroethene	50.0	45.7		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/L		110	55 - 128
1,2,3-Trichloropropane	50.0	53.0		ug/L		106	50 - 133
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	70 - 123
1,3,5-Trimethylbenzene	50.0	51.9		ug/L		104	70 - 123
Vinyl chloride	50.0	54.1		ug/L		108	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*108*		*75 - 120*

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

Lab Sample ID: MB 500-609019/1-A
Matrix: Water
Analysis Batch: 609090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		07/13/21 06:29	07/13/21 15:54	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		07/13/21 06:29	07/13/21 15:54	1
Anthracene	<0.27		0.80	0.27	ug/L		07/13/21 06:29	07/13/21 15:54	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		07/13/21 06:29	07/13/21 15:54	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		07/13/21 06:29	07/13/21 15:54	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		07/13/21 06:29	07/13/21 15:54	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		07/13/21 06:29	07/13/21 15:54	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		07/13/21 06:29	07/13/21 15:54	1
Chrysene	<0.055		0.16	0.055	ug/L		07/13/21 06:29	07/13/21 15:54	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		07/13/21 06:29	07/13/21 15:54	1
Fluoranthene	<0.36		0.80	0.36	ug/L		07/13/21 06:29	07/13/21 15:54	1
Fluorene	<0.20		0.80	0.20	ug/L		07/13/21 06:29	07/13/21 15:54	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		07/13/21 06:29	07/13/21 15:54	1
Naphthalene	<0.25		0.80	0.25	ug/L		07/13/21 06:29	07/13/21 15:54	1
Phenanthrene	<0.24		0.80	0.24	ug/L		07/13/21 06:29	07/13/21 15:54	1
Pyrene	<0.34		0.80	0.34	ug/L		07/13/21 06:29	07/13/21 15:54	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		07/13/21 06:29	07/13/21 15:54	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		07/13/21 06:29	07/13/21 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*36 - 120*	*07/13/21 06:29*	*07/13/21 15:54*	*1*
Terphenyl-d14 (Surr)	*99*		*40 - 145*	*07/13/21 06:29*	*07/13/21 15:54*	*1*

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

Lab Sample ID: MB 500-609019/1-A
Matrix: Water
Analysis Batch: 609090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609019

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		34 - 110	07/13/21 06:29	07/13/21 15:54	1

Lab Sample ID: LCS 500-609019/2-A
Matrix: Water
Analysis Batch: 609090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	27.1		ug/L		85	46 - 110
Acenaphthylene	32.0	26.5		ug/L		83	47 - 113
Anthracene	32.0	31.1		ug/L		97	67 - 118
Benzo[a]anthracene	32.0	33.6		ug/L		105	70 - 126
Benzo[a]pyrene	32.0	40.0		ug/L		125	70 - 135
Benzo[b]fluoranthene	32.0	35.3		ug/L		110	69 - 136
Benzo[g,h,i]perylene	32.0	28.4		ug/L		89	70 - 135
Benzo[k]fluoranthene	32.0	33.7		ug/L		105	70 - 133
Chrysene	32.0	33.4		ug/L		104	68 - 129
Dibenz(a,h)anthracene	32.0	31.6		ug/L		99	70 - 134
Fluoranthene	32.0	32.4		ug/L		101	68 - 126
Fluorene	32.0	26.5		ug/L		83	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.7		ug/L		96	65 - 133
Naphthalene	32.0	20.7		ug/L		65	36 - 110
Phenanthrene	32.0	31.0		ug/L		97	65 - 120
Pyrene	32.0	33.3		ug/L		104	70 - 126
1-Methylnaphthalene	32.0	20.9		ug/L		65	38 - 110
2-Methylnaphthalene	32.0	20.8		ug/L		65	34 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	69		36 - 120
Terphenyl-d14 (Surr)	106		40 - 145
2-Fluorobiphenyl (Surr)	75		34 - 110

Lab Sample ID: LCSD 500-609019/3-A
Matrix: Water
Analysis Batch: 609090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 609019

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	21.6	*1	ug/L		67	46 - 110	23	20
Acenaphthylene	32.0	22.3		ug/L		70	47 - 113	17	20
Anthracene	32.0	30.1		ug/L		94	67 - 118	3	20
Benzo[a]anthracene	32.0	33.0		ug/L		103	70 - 126	2	20
Benzo[a]pyrene	32.0	38.8		ug/L		121	70 - 135	3	20
Benzo[b]fluoranthene	32.0	33.7		ug/L		105	69 - 136	5	20
Benzo[g,h,i]perylene	32.0	29.9		ug/L		93	70 - 135	5	20
Benzo[k]fluoranthene	32.0	35.3		ug/L		110	70 - 133	5	20
Chrysene	32.0	33.8		ug/L		106	68 - 129	1	20
Dibenz(a,h)anthracene	32.0	32.6		ug/L		102	70 - 134	3	20
Fluoranthene	32.0	32.7		ug/L		102	68 - 126	1	20
Fluorene	32.0	24.4		ug/L		76	53 - 120	8	20

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

Lab Sample ID: LCSD 500-609019/3-A
Matrix: Water
Analysis Batch: 609090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 609019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene			32.0	31.8		ug/L		99	65 - 133	3	20
Naphthalene			32.0	15.3	*1	ug/L		48	36 - 110	30	20
Phenanthrene			32.0	29.8		ug/L		93	65 - 120	4	20
Pyrene			32.0	35.3		ug/L		110	70 - 126	6	20
1-Methylnaphthalene			32.0	15.8	*1	ug/L		49	38 - 110	28	20
2-Methylnaphthalene			32.0	15.4	*1	ug/L		48	34 - 110	30	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*50*		*36 - 120*
Terphenyl-d14 (Surr)	*111*		*40 - 145*
2-Fluorobiphenyl (Surr)	*59*		*34 - 110*

Lab Sample ID: MB 500-610064/1-A
Matrix: Solid
Analysis Batch: 610159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Anthracene	<5.6		33	5.6	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Chrysene	<9.1		33	9.1	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Fluoranthene	<6.2		33	6.2	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Fluorene	<4.7		33	4.7	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Naphthalene	<5.1		33	5.1	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Phenanthrene	<4.6		33	4.6	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
Pyrene	<6.6		33	6.6	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		07/19/21 17:06	07/20/21 11:26	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		07/19/21 17:06	07/20/21 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*07/19/21 17:06*	*07/20/21 11:26*	*1*
Terphenyl-d14 (Surr)	*103*		*42 - 157*	*07/19/21 17:06*	*07/20/21 11:26*	*1*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*	*07/19/21 17:06*	*07/20/21 11:26*	*1*

Lab Sample ID: LCS 500-610064/2-A
Matrix: Solid
Analysis Batch: 610159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610064

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene			1330	1170		ug/Kg		88	65 - 124
Acenaphthylene			1330	1190		ug/Kg		89	68 - 120

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

Lab Sample ID: LCS 500-610064/2-A
Matrix: Solid
Analysis Batch: 610159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1330	1170		ug/Kg		88	70 - 114
Benzo[a]anthracene	1330	1190		ug/Kg		89	67 - 122
Benzo[a]pyrene	1330	1340		ug/Kg		100	65 - 133
Benzo[b]fluoranthene	1330	1210		ug/Kg		91	69 - 129
Benzo[g,h,i]perylene	1330	1300		ug/Kg		97	72 - 131
Benzo[k]fluoranthene	1330	1230		ug/Kg		93	68 - 127
Chrysene	1330	1170		ug/Kg		88	63 - 120
Dibenz(a,h)anthracene	1330	1350		ug/Kg		102	64 - 131
Fluoranthene	1330	1160		ug/Kg		87	62 - 120
Fluorene	1330	1160		ug/Kg		87	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1290		ug/Kg		97	68 - 130
Naphthalene	1330	1090		ug/Kg		82	63 - 110
Phenanthrene	1330	1160		ug/Kg		87	62 - 120
Pyrene	1330	1200		ug/Kg		90	61 - 128
1-Methylnaphthalene	1330	1110		ug/Kg		83	68 - 111
2-Methylnaphthalene	1330	1090		ug/Kg		82	69 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*97*		*37 - 147*
Terphenyl-d14 (Surr)	*103*		*42 - 157*
2-Fluorobiphenyl (Surr)	*94*		*43 - 145*

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

Lab Sample ID: MB 500-608898/1-A
Matrix: Water
Analysis Batch: 609160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1221	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1232	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1242	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1248	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1254	<0.20		0.40	0.20	ug/L		07/12/21 10:42	07/13/21 13:57	1
PCB-1260	<0.070		0.40	0.070	ug/L		07/12/21 10:42	07/13/21 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 120*	*07/12/21 10:42*	*07/13/21 13:57*	*1*
DCB Decachlorobiphenyl	*108*		*30 - 140*	*07/12/21 10:42*	*07/13/21 13:57*	*1*

Lab Sample ID: LCS 500-608898/2-A
Matrix: Water
Analysis Batch: 609160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.52		ug/L		88	56 - 120
PCB-1260	4.00	4.65		ug/L		116	53 - 137

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

Lab Sample ID: LCS 500-608898/2-A
Matrix: Water
Analysis Batch: 609160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608898

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*56*		*30 - 120*
DCB Decachlorobiphenyl	*109*		*30 - 140*

Lab Sample ID: MB 500-610096/1-A
Matrix: Solid
Analysis Batch: 610222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		17	6.6	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1221	<6.6		17	6.6	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1232	<4.5		17	4.5	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1242	<6.5		17	6.5	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1248	<7.9		17	7.9	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1254	<5.7		17	5.7	ug/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1260	<6.3		17	6.3	ug/Kg		07/20/21 06:29	07/20/21 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*49 - 129*	*07/20/21 06:29*	*07/20/21 15:36*	*1*
DCB Decachlorobiphenyl	*112*		*37 - 121*	*07/20/21 06:29*	*07/20/21 15:36*	*1*

Lab Sample ID: LCS 500-610096/3-A
Matrix: Solid
Analysis Batch: 610222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	168		ug/Kg		101	57 - 120		
PCB-1260			167	185		ug/Kg		111	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*49 - 129*
DCB Decachlorobiphenyl	*114*		*37 - 121*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-506020/1-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/13/21 04:51	07/16/21 13:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-506020/1-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/13/21 04:51	07/16/21 13:29	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/13/21 04:51	07/16/21 13:29	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/13/21 04:51	07/16/21 13:29	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/13/21 04:51	07/16/21 13:29	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/13/21 04:51	07/16/21 13:29	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/13/21 04:51	07/16/21 13:29	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/13/21 04:51	07/16/21 13:29	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/13/21 04:51	07/16/21 13:29	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/13/21 04:51	07/16/21 13:29	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/13/21 04:51	07/16/21 13:29	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/13/21 04:51	07/16/21 13:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/13/21 04:51	07/16/21 13:29	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/13/21 04:51	07/16/21 13:29	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/13/21 04:51	07/16/21 13:29	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/13/21 04:51	07/16/21 13:29	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C5 PFPeA	*97*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C2 PFHxA	*96*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C4 PFHpA	*101*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C4 PFOA	*100*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C5 PFNA	*103*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C2 PFDA	*100*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C2 PFUnA	*98*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C2 PFDoA	*95*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C2 PFTeDA	*96*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C3 PFBS	*116*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
18O2 PFHxS	*105*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C4 PFOS	*103*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
13C8 FOSA	*98*		*10 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d3-NMeFOSAA	*78*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d5-NEtFOSAA	*89*		*25 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d-N-MeFOSA-M	*81*		*10 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d-N-EtFOSA-M	*79*		*10 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d7-N-MeFOSE-M	*77*		*10 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*
d9-N-EtFOSE-M	*79*		*10 - 150*	*07/13/21 04:51*	*07/16/21 13:29*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-506020/1-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506020

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	94		25 - 150	07/13/21 04:51	07/16/21 13:29	1
M2-6:2 FTS	93		25 - 150	07/13/21 04:51	07/16/21 13:29	1
M2-8:2 FTS	100		25 - 150	07/13/21 04:51	07/16/21 13:29	1
13C3 HFPO-DA	97		25 - 150	07/13/21 04:51	07/16/21 13:29	1
13C2 10:2 FTS	105		25 - 150	07/13/21 04:51	07/16/21 13:29	1

Lab Sample ID: LCS 320-506020/2-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	47.9		ng/L		120	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	49.3		ng/L		123	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	46.0		ng/L		115	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	44.3		ng/L		111	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	47.5		ng/L		119	60 - 135
Perfluorononanoic acid (PFNA)	40.0	46.7		ng/L		117	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	50.4		ng/L		126	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	47.8		ng/L		119	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.8		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	40.8		ng/L		102	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	48.8		ng/L		122	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	36.1		ng/L		102	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	37.4		ng/L		100	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	43.7		ng/L		120	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.9		ng/L		113	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	41.7		ng/L		112	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	40.8		ng/L		106	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	44.0		ng/L		114	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	43.6		ng/L		113	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	46.7		ng/L		117	60 - 135
NEtFOSA	40.0	45.8		ng/L		114	60 - 135
NMeFOSA	40.0	42.6		ng/L		107	60 - 135
NMeFOSAA	40.0	49.6		ng/L		124	60 - 135
NEtFOSAA	40.0	52.8		ng/L		132	60 - 135
NMeFOSE	40.0	46.2		ng/L		116	60 - 135
NEtFOSE	40.0	49.3		ng/L		123	60 - 135
4:2 FTS	37.4	42.4		ng/L		113	60 - 135
6:2 FTS	37.9	46.1		ng/L		122	60 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-506020/2-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
8:2 FTS			38.3	49.7		ng/L		130	60 - 135		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	41.0		ng/L		109	60 - 135		
HFPO-DA (GenX)			40.0	47.4		ng/L		119	60 - 135		
9Cl-PF3ONS			37.3	42.8		ng/L		115	60 - 135		
11Cl-PF3OUdS			37.7	41.5		ng/L		110	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*66*		*25 - 150*
13C5 PFPeA	*65*		*25 - 150*
13C2 PFHxA	*66*		*25 - 150*
13C4 PFHpA	*71*		*25 - 150*
13C4 PFOA	*68*		*25 - 150*
13C5 PFNA	*68*		*25 - 150*
13C2 PFDA	*68*		*25 - 150*
13C2 PFUnA	*68*		*25 - 150*
13C2 PFDoA	*71*		*25 - 150*
13C2 PFTeDA	*63*		*25 - 150*
13C3 PFBS	*80*		*25 - 150*
18O2 PFHxS	*67*		*25 - 150*
13C4 PFOS	*74*		*25 - 150*
13C8 FOSA	*67*		*10 - 150*
d3-NMeFOSAA	*54*		*25 - 150*
d5-NEtFOSAA	*60*		*25 - 150*
d-N-MeFOSA-M	*56*		*10 - 150*
d-N-EtFOSA-M	*54*		*10 - 150*
d7-N-MeFOSE-M	*52*		*10 - 150*
d9-N-EtFOSE-M	*56*		*10 - 150*
M2-4:2 FTS	*62*		*25 - 150*
M2-6:2 FTS	*63*		*25 - 150*
M2-8:2 FTS	*65*		*25 - 150*
13C3 HFPO-DA	*68*		*25 - 150*
13C2 10:2 FTS	*72*		*25 - 150*

Lab Sample ID: LCSD 320-506020/3-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	47.4		ng/L		118	60 - 135	1	30
Perfluoropentanoic acid (PFPeA)			40.0	49.5		ng/L		124	60 - 135	0	30
Perfluorohexanoic acid (PFHxA)			40.0	43.4		ng/L		108	60 - 135	6	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.3		ng/L		113	60 - 135	2	30
Perfluorooctanoic acid (PFOA)			40.0	48.3		ng/L		121	60 - 135	2	30
Perfluorononanoic acid (PFNA)			40.0	45.8		ng/L		115	60 - 135	2	30
Perfluorodecanoic acid (PFDA)			40.0	48.4		ng/L		121	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)			40.0	47.6		ng/L		119	60 - 135	0	30
Perfluorododecanoic acid (PFDoA)			40.0	44.6		ng/L		112	60 - 135	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-506020/3-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTrDA)			40.0	41.6		ng/L		104	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)			40.0	51.1		ng/L		128	60 - 135	5	30
Perfluorobutanesulfonic acid (PFBS)			35.4	35.7		ng/L		101	60 - 135	1	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	38.1		ng/L		102	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	42.8		ng/L		118	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	44.0		ng/L		115	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)			37.1	41.7		ng/L		112	60 - 135	0	30
Perfluorononanesulfonic acid (PFNS)			38.4	41.4		ng/L		108	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	38.6		ng/L		100	60 - 135	13	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	30.5	*1	ng/L		79	60 - 135	35	30
Perfluorooctanesulfonamide (FOSA)			40.0	45.3		ng/L		113	60 - 135	3	30
NEtFOSA			40.0	50.2		ng/L		125	60 - 135	9	30
NMeFOSA			40.0	45.2		ng/L		113	60 - 135	6	30
NMeFOSAA			40.0	49.4		ng/L		124	60 - 135	0	30
NEtFOSAA			40.0	49.2		ng/L		123	60 - 135	7	30
NMeFOSE			40.0	46.5		ng/L		116	60 - 135	1	30
NEtFOSE			40.0	49.5		ng/L		124	60 - 135	0	30
4:2 FTS			37.4	48.1		ng/L		129	60 - 135	13	30
6:2 FTS			37.9	45.4		ng/L		120	60 - 135	2	30
8:2 FTS			38.3	45.0		ng/L		117	60 - 135	10	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	41.5		ng/L		110	60 - 135	1	30
HFPO-DA (GenX)			40.0	46.0		ng/L		115	60 - 135	3	30
9Cl-PF3ONS			37.3	40.6		ng/L		109	60 - 135	5	30
11Cl-PF3OUdS			37.7	34.5		ng/L		91	60 - 135	18	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*93*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFHxA	*95*		*25 - 150*
13C4 PFHpA	*98*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*79*		*25 - 150*
13C2 PFTeDA	*64*		*25 - 150*
13C3 PFBS	*111*		*25 - 150*
18O2 PFHxS	*96*		*25 - 150*
13C4 PFOS	*102*		*25 - 150*
13C8 FOSA	*81*		*10 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-506020/3-A
Matrix: Water
Analysis Batch: 507446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506020

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	76		25 - 150
d-N-MeFOSA-M	60		10 - 150
d-N-EtFOSA-M	57		10 - 150
d7-N-MeFOSE-M	57		10 - 150
d9-N-EtFOSE-M	55		10 - 150
M2-4:2 FTS	80		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	96		25 - 150
13C2 10:2 FTS	83		25 - 150

Lab Sample ID: MB 320-506368/1-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.028		0.20	0.028	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoropentanoic acid (PFPeA)	<0.077		0.20	0.077	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorohexanoic acid (PFHxA)	<0.042		0.20	0.042	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroheptanoic acid (PFHpA)	<0.029		0.20	0.029	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanoic acid (PFOA)	<0.086		0.20	0.086	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorononanoic acid (PFNA)	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorodecanoic acid (PFDA)	<0.022		0.20	0.022	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroundecanoic acid (PFUnA)	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorododecanoic acid (PFDoA)	<0.067		0.20	0.067	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorotridecanoic acid (PFTrDA)	<0.051		0.20	0.051	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.20	0.054	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.020		0.20	0.020	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.20	0.031	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.035		0.20	0.035	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.50	0.20	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorononanesulfonic acid (PFNS)	<0.020		0.20	0.020	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.039		0.20	0.039	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.20	0.060	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanesulfonamide (FOSA)	<0.082		0.20	0.082	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSA	<0.024		0.20	0.024	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSA	<0.041		0.20	0.041	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSAA	<0.39		2.0	0.39	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSAA	<0.37		2.0	0.37	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSE	<0.071		0.20	0.071	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSE	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
4:2 FTS	<0.37		2.0	0.37	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
6:2 FTS	<0.15		2.0	0.15	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
8:2 FTS	<0.25		2.0	0.25	ug/Kg		07/13/21 19:40	07/17/21 09:49	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-506368/1-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.018		0.20	0.018	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
HFPO-DA (GenX)	<0.11		0.25	0.11	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
9Cl-PF3ONS	<0.027		0.20	0.027	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
11Cl-PF3OUdS	<0.022		0.20	0.022	ug/Kg		07/13/21 19:40	07/17/21 09:49	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C5 PFPeA	*74*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFHxA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFHpA	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFOA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C5 PFNA	*78*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFDA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFUnA	*74*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFDoA	*65*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFTeDA	*64*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C3 PFBS	*85*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
18O2 PFHxS	*80*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFOS	*82*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C8 FOSA	*84*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d-N-MeFOSA-M	*77*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d-N-EtFOSA-M	*75*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d7-N-MeFOSE-M	*48*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d9-N-EtFOSE-M	*52*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-4:2 FTS	*72*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-6:2 FTS	*78*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-8:2 FTS	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C3 HFPO-DA	*71*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 10:2 FTS	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*

Lab Sample ID: LCS 320-506368/2-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.19		ug/Kg		110	60 - 135
Perfluoropentanoic acid (PFPeA)	2.00	2.15		ug/Kg		108	60 - 135
Perfluorohexanoic acid (PFHxA)	2.00	2.25		ug/Kg		113	60 - 135
Perfluoroheptanoic acid (PFHpA)	2.00	2.31		ug/Kg		115	60 - 135
Perfluorooctanoic acid (PFOA)	2.00	2.28		ug/Kg		114	60 - 135
Perfluorononanoic acid (PFNA)	2.00	2.18		ug/Kg		109	60 - 135
Perfluorodecanoic acid (PFDA)	2.00	2.06		ug/Kg		103	60 - 135
Perfluoroundecanoic acid (PFUnA)	2.00	2.30		ug/Kg		115	60 - 135
Perfluorododecanoic acid (PFDoA)	2.00	1.95		ug/Kg		98	60 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-506368/2-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid (PFTrDA)	2.00	1.81		ug/Kg		91	60 - 135
Perfluorotetradecanoic acid (PFTeA)	2.00	2.06		ug/Kg		103	60 - 135
Perfluorobutanesulfonic acid (PFBS)	1.77	1.74		ug/Kg		99	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.71		ug/Kg		91	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.97		ug/Kg		108	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.05		ug/Kg		108	60 - 135
Perfluorooctanesulfonic acid (PFOS)	1.86	2.03		ug/Kg		110	60 - 135
Perfluorononanesulfonic acid (PFNS)	1.92	1.93		ug/Kg		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	1.93	1.92		ug/Kg		100	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.86		ug/Kg		96	60 - 135
Perfluorooctanesulfonamide (FOSA)	2.00	2.06		ug/Kg		103	60 - 135
NEtFOSA	2.00	2.14		ug/Kg		107	60 - 135
NMeFOSA	2.00	2.16		ug/Kg		108	60 - 135
NMeFOSAA	2.00	2.17		ug/Kg		109	60 - 135
NEtFOSAA	2.00	2.32		ug/Kg		116	60 - 135
NMeFOSE	2.00	2.34		ug/Kg		117	60 - 135
NEtFOSE	2.00	2.19		ug/Kg		110	60 - 135
4:2 FTS	1.87	1.75	J	ug/Kg		94	60 - 135
6:2 FTS	1.90	1.96	J	ug/Kg		103	60 - 135
8:2 FTS	1.92	2.15		ug/Kg		112	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	1.94		ug/Kg		103	60 - 135
HFPO-DA (GenX)	2.00	2.18		ug/Kg		109	60 - 135
9Cl-PF3ONS	1.86	1.88		ug/Kg		101	60 - 135
11Cl-PF3OUdS	1.88	1.55		ug/Kg		82	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*76*		*25 - 150*
13C5 PFPeA	*79*		*25 - 150*
13C2 PFHxA	*77*		*25 - 150*
13C4 PFHpA	*79*		*25 - 150*
13C4 PFOA	*79*		*25 - 150*
13C5 PFNA	*82*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C2 PFUnA	*81*		*25 - 150*
13C2 PFDoA	*81*		*25 - 150*
13C2 PFTeDA	*72*		*25 - 150*
13C3 PFBS	*89*		*25 - 150*
18O2 PFHxS	*78*		*25 - 150*
13C4 PFOS	*85*		*25 - 150*
13C8 FOSA	*86*		*10 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-506368/2-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506368

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d3-NMeFOSAA	78		25 - 150
d5-NEtFOSAA	80		25 - 150
d-N-MeFOSA-M	83		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	57		10 - 150
d9-N-EtFOSE-M	58		10 - 150
M2-4:2 FTS	76		25 - 150
M2-6:2 FTS	80		25 - 150
M2-8:2 FTS	79		25 - 150
13C3 HFPO-DA	77		25 - 150
13C2 10:2 FTS	83		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-610284/1-A
Matrix: Solid
Analysis Batch: 610596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Barium	<0.11		1.0	0.11	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Cadmium	0.0573	J	0.20	0.036	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Lead	<0.23		0.50	0.23	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/20/21 17:24	07/21/21 15:45	1
Silver	<0.13		0.50	0.13	mg/Kg		07/20/21 17:24	07/21/21 15:45	1

Lab Sample ID: LCS 500-610284/2-A
Matrix: Solid
Analysis Batch: 610596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.43		mg/Kg		94	80 - 120
Barium	200	203		mg/Kg		101	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Lead	10.0	9.53		mg/Kg		95	80 - 120
Selenium	10.0	8.92		mg/Kg		89	80 - 120
Silver	5.00	4.85		mg/Kg		97	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-609066/1-A
Matrix: Water
Analysis Batch: 609341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		07/13/21 08:27	07/13/21 17:43	1
Barium	<0.73		2.5	0.73	ug/L		07/13/21 08:27	07/13/21 17:43	1
Cadmium	<0.17		0.50	0.17	ug/L		07/13/21 08:27	07/13/21 17:43	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-609066/1-A
Matrix: Water
Analysis Batch: 609341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<1.1		5.0	1.1	ug/L		07/13/21 08:27	07/13/21 17:43	1
Lead	<0.19		0.50	0.19	ug/L		07/13/21 08:27	07/13/21 17:43	1
Selenium	<0.98		2.5	0.98	ug/L		07/13/21 08:27	07/13/21 17:43	1
Silver	<0.12		0.50	0.12	ug/L		07/13/21 08:27	07/13/21 17:43	1

Lab Sample ID: LCS 500-609066/2-A
Matrix: Water
Analysis Batch: 609341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 609066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	97.4		ug/L		97	80 - 120
Barium	500	495		ug/L		99	80 - 120
Cadmium	50.0	50.7		ug/L		101	80 - 120
Chromium	200	203		ug/L		102	80 - 120
Lead	100	101		ug/L		101	80 - 120
Selenium	100	94.9		ug/L		95	80 - 120
Silver	50.0	51.3		ug/L		103	80 - 120

Lab Sample ID: MB 500-612590/1-A
Matrix: Water
Analysis Batch: 613065

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 612590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		08/04/21 07:41	08/05/21 14:54	1
Barium	<0.73		2.5	0.73	ug/L		08/04/21 07:41	08/05/21 14:54	1
Cadmium	<0.17		0.50	0.17	ug/L		08/04/21 07:41	08/05/21 14:54	1
Chromium	<1.1		5.0	1.1	ug/L		08/04/21 07:41	08/05/21 14:54	1
Lead	<0.19		0.50	0.19	ug/L		08/04/21 07:41	08/05/21 14:54	1
Selenium	<0.98		2.5	0.98	ug/L		08/04/21 07:41	08/05/21 14:54	1
Silver	<0.12		0.50	0.12	ug/L		08/04/21 07:41	08/05/21 14:54	1

Lab Sample ID: LCS 500-612590/2-A
Matrix: Water
Analysis Batch: 613065

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 612590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	105		ug/L		105	80 - 120
Barium	500	533		ug/L		107	80 - 120
Cadmium	50.0	54.0		ug/L		108	80 - 120
Chromium	200	217		ug/L		108	80 - 120
Lead	100	115		ug/L		115	80 - 120
Selenium	100	106		ug/L		106	80 - 120
Silver	50.0	56.0		ug/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-608876/12-A
Matrix: Water
Analysis Batch: 609125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		07/12/21 09:20	07/13/21 07:47	1

Lab Sample ID: LCS 500-608876/13-A
Matrix: Water
Analysis Batch: 609125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.08		ug/L		104	80 - 120

Lab Sample ID: MB 500-612337/1-E
Matrix: Water
Analysis Batch: 612831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 612627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		08/04/21 09:40	08/05/21 07:53	1

Lab Sample ID: MB 500-612627/12-A
Matrix: Water
Analysis Batch: 612831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 612627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		08/04/21 09:40	08/05/21 07:48	1

Lab Sample ID: LCS 500-612627/13-A
Matrix: Water
Analysis Batch: 612831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 612627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	1.99		ug/L		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-610134/12-A
Matrix: Solid
Analysis Batch: 610424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg		07/20/21 13:15	07/21/21 07:55	1

Lab Sample ID: LCS 500-610134/13-A
Matrix: Solid
Analysis Batch: 610424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	167	178		ug/Kg		107	80 - 120

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: EAST SUMP
Date Collected: 07/07/21 10:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	609910	07/19/21 16:15	PMF	TAL CHI
Total/NA	Prep	3510C			609019	07/13/21 06:29	SB	TAL CHI
Total/NA	Analysis	8270D		1	609312	07/14/21 10:56	EF	TAL CHI
Total/NA	Prep	3510C			608898	07/12/21 10:42	SB	TAL CHI
Total/NA	Analysis	8082A		1	609160	07/13/21 15:02	JBJ	TAL CHI
Total/NA	Prep	3535			506020	07/13/21 04:51	EFG	TAL SAC
Total/NA	Analysis	537 (modified)		1	507446	07/16/21 14:42	RS1	TAL SAC
Dissolved	Prep	3005A			609066	07/13/21 08:27	BDE	TAL CHI
Dissolved	Analysis	6020A		1	609341	07/13/21 18:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			612590	08/04/21 07:41	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	613065	08/05/21 15:01	FXG	TAL CHI
Dissolved	Prep	7470A			608876	07/12/21 09:20	MJG	TAL CHI
Dissolved	Analysis	7470A		1	609125	07/13/21 08:39	MJG	TAL CHI
Total/NA	Prep	7470A			612627	08/04/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	612831	08/05/21 07:57	MJG	TAL CHI

Client Sample ID: LARGE SUMP
Date Collected: 07/07/21 11:20
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	609910	07/19/21 16:42	PMF	TAL CHI
Total/NA	Prep	3510C			609019	07/13/21 06:29	SB	TAL CHI
Total/NA	Analysis	8270D		1	609312	07/14/21 11:20	EF	TAL CHI
Total/NA	Prep	3510C			608898	07/12/21 10:42	SB	TAL CHI
Total/NA	Analysis	8082A		1	609160	07/13/21 15:18	JBJ	TAL CHI
Total/NA	Prep	3535			506020	07/13/21 04:51	EFG	TAL SAC
Total/NA	Analysis	537 (modified)		1	507446	07/16/21 14:51	RS1	TAL SAC
Dissolved	Prep	3005A			609066	07/13/21 08:27	BDE	TAL CHI
Dissolved	Analysis	6020A		1	609341	07/13/21 19:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			612590	08/04/21 07:41	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	613065	08/05/21 15:04	FXG	TAL CHI
Dissolved	Prep	7470A			608876	07/12/21 09:20	MJG	TAL CHI
Dissolved	Analysis	7470A		1	609125	07/13/21 08:41	MJG	TAL CHI
Total/NA	Prep	7470A			612627	08/04/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	612831	08/05/21 07:59	MJG	TAL CHI

Client Sample ID: WEST SUMP
Date Collected: 07/07/21 11:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202086-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	609910	07/19/21 17:08	PMF	TAL CHI
Total/NA	Prep	3510C			609019	07/13/21 06:29	SB	TAL CHI
Total/NA	Analysis	8270D		1	609312	07/14/21 11:43	EF	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: WEST SUMP
Lab Sample ID: 500-202086-3
Date Collected: 07/07/21 11:45
Matrix: Water
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			608898	07/12/21 10:42	SB	TAL CHI
Total/NA	Analysis	8082A		1	609160	07/13/21 15:34	JBJ	TAL CHI
Total/NA	Prep	3535			506020	07/13/21 04:51	EFG	TAL SAC
Total/NA	Analysis	537 (modified)		1	507446	07/16/21 15:00	RS1	TAL SAC
Dissolved	Prep	3005A			609066	07/13/21 08:27	BDE	TAL CHI
Dissolved	Analysis	6020A		1	609341	07/13/21 19:08	FXG	TAL CHI
Total Recoverable	Prep	3005A			612590	08/04/21 07:41	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	613065	08/05/21 15:08	FXG	TAL CHI
Dissolved	Prep	7470A			608876	07/12/21 09:20	MJG	TAL CHI
Dissolved	Analysis	7470A		1	609125	07/13/21 08:43	MJG	TAL CHI
Total/NA	Prep	7470A			612627	08/04/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	612831	08/05/21 08:01	MJG	TAL CHI

Client Sample ID: FB-01
Lab Sample ID: 500-202086-4
Date Collected: 07/07/21 12:00
Matrix: Water
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			506020	07/13/21 04:51	EFG	TAL SAC
Total/NA	Analysis	537 (modified)		1	507446	07/16/21 15:10	RS1	TAL SAC

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5
Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609943	07/19/21 08:43	LWN	TAL CHI

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5
Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 59.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/07/21 12:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609909	07/19/21 18:55	PMF	TAL CHI
Total/NA	Prep	3541			610064	07/19/21 17:06	ACK	TAL CHI
Total/NA	Analysis	8270D		10	610178	07/20/21 15:30	EF	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		5	610307	07/21/21 06:49	SS	TAL CHI
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:08	K1S	TAL SAC
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		1	610596	07/21/21 16:14	EEN	TAL CHI
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		5	610699	07/22/21 13:43	JJB	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Client Sample ID: PRE EAST SUMP
Lab Sample ID: 500-202086-5
Date Collected: 07/07/21 12:15
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 59.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			610134	07/20/21 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	610424	07/21/21 08:46	MJG	TAL CHI

Client Sample ID: PRE LARGE SUMP
Lab Sample ID: 500-202086-6
Date Collected: 07/07/21 12:30
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609943	07/19/21 08:43	LWN	TAL CHI

Client Sample ID: PRE LARGE SUMP
Lab Sample ID: 500-202086-6
Date Collected: 07/07/21 12:30
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 23.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/07/21 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609909	07/19/21 19:21	PMF	TAL CHI
Total/NA	Prep	3541			610064	07/19/21 17:06	ACK	TAL CHI
Total/NA	Analysis	8270D		1	610691	07/22/21 15:58	SS	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		1	610222	07/20/21 17:23	JBJ	TAL CHI
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:17	K1S	TAL SAC
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		1	610596	07/21/21 16:17	EEN	TAL CHI
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		5	610699	07/22/21 13:49	JJB	TAL CHI
Total/NA	Prep	7471B			610134	07/20/21 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	610424	07/21/21 08:47	MJG	TAL CHI

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7
Date Collected: 07/07/21 12:45
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609943	07/19/21 08:43	LWN	TAL CHI

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7
Date Collected: 07/07/21 12:45
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/07/21 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609909	07/19/21 19:47	PMF	TAL CHI
Total/NA	Prep	3541			610064	07/19/21 17:06	ACK	TAL CHI
Total/NA	Analysis	8270D		10	610691	07/22/21 16:19	SS	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: PRE WEST SUMP
Lab Sample ID: 500-202086-7
Date Collected: 07/07/21 12:45
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		5	610307	07/21/21 07:05	SS	TAL CHI
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:26	K1S	TAL SAC
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		1	610596	07/21/21 16:20	EEN	TAL CHI
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		5	610699	07/22/21 13:52	JJB	TAL CHI
Total/NA	Prep	7471B			610134	07/20/21 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	610424	07/21/21 08:49	MJG	TAL CHI

Client Sample ID: TS-01
Lab Sample ID: 500-202086-8
Date Collected: 07/08/21 08:20
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609943	07/19/21 08:43	LWN	TAL CHI

Client Sample ID: TS-01
Lab Sample ID: 500-202086-8
Date Collected: 07/08/21 08:20
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/08/21 08:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609909	07/19/21 20:14	PMF	TAL CHI
Total/NA	Prep	3541			610064	07/19/21 17:06	ACK	TAL CHI
Total/NA	Analysis	8270D		1	610178	07/20/21 14:19	EF	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		1	610222	07/20/21 17:54	JBJ	TAL CHI
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:35	K1S	TAL SAC
Total/NA	Prep	3050B			610284	07/20/21 17:24	LMN	TAL CHI
Total/NA	Analysis	6010B		1	610596	07/21/21 16:23	EEN	TAL CHI
Total/NA	Prep	7471B			610134	07/20/21 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	610424	07/21/21 08:52	MJG	TAL CHI

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202086-9
Date Collected: 07/07/21 00:00
Matrix: Water
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	609910	07/19/21 13:35	PMF	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202086-10
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/07/21 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609909	07/19/21 14:01	PMF	TAL CHI

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: DUNCAN GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-92904-41388 1
Client Contact: Duncan Glasford	Phone: 2625736315	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Ramboll US Corporation	PWS D:	Analysis Requested		Job #: 202086
Address: 234 W Florida Street Fifth Floor	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
City: Milwaukee	TAT Requested (days):			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: DGLASFORD@ramboll.com/SPETROFSKE@RAMBOLL.com	WO #: 1690019558			
Project Name: Former Marro 20 Chilton	Project #: 50019131			
Site:	SSOW#:			Other:

500-202086 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAH / PCB	VOC	PFAS	METALS	Total Number of containers	Special Instructions/Note
				Preservation Code:									
1	EAST SUMP	7-7	1045	G	W Solid			X	X	X	X		
2	LARGE SUMP		1120	G	W Solid			X	X	X	X		
3	WEST SUMP		1145	G	W Solid			X	X	X	X		
4	FB-01		1200	G	W Solid					X			
5	PRE EAST SUMP		1215	G	Solid			X	X	X	X		
6	PRE LARGE SUMP		1230	G	Solid			X	X	X	X		
7	PRE WEST SUMP		1245	G	Solid			X	X	X	X		
8	TS-01	7-8	820	G	Solid			X	X	X	X		
9/10	TRIP BLANK	—	—	—	Solid				X				
					Solid								
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
	7821 1500	RAMBOLL		7-8-21 1500	TA
	7-8-21 1700	TA	Stephanie Hernandez	7/9/21 0930	ETA-CHI

Custody Seals Intact: ☐ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and other Remarks: 21, 2.6+22

Ver 11/01/2020


ORIGIN ID:RRLA (262) 202-5955
SHIPPING
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 08JUL21
ACTWGT: 55.95 LB
CAD: 525155/CAFE3406
BILL RECIPIENT
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
FedEx
Express
2 of 2
MPS# 0263 7125 4944 8390
Mstr# 7125 4944 8389
0201
FRI - 09 JUL 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD
****


500-202086 Wayb
ORIGIN ID:RRLA (262) 202-5955
SHIPPING
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 08JUL21
ACTWGT: 54.10 LB
CAD: 525155/CAFE3406
BILL RECIPIENT
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0201 7125 4944 8404
FRI - 09 JUL 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-150221.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-202086-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/22/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Mirro 20 - Chilton	Project #: 50019131			
Site:	SSOW#:			

Analysis Requested

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 Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI/3535_PFC_28D PFAS, Standard List (33 analytes)	PFC_IDA_WI/Shake_Bath_28D PFAS, Standard List (33 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EAST SUMP (500-202086-1)	7/7/21	10:45 Central		Water			X		2	
LARGE SUMP (500-202086-2)	7/7/21	11:20 Central		Water			X		2	
WEST SUMP (500-202086-3)	7/7/21	11:45 Central		Water			X		2	
FB-01 (500-202086-4)	7/7/21	12:00 Central		Water			X		2	
PRE EAST SUMP (500-202086-5)	7/7/21	12:15 Central		Solid				X	1	
PRE LARGE SUMP (500-202086-6)	7/7/21	12:30 Central		Solid				X	1	
PRE WEST SUMP (500-202086-7)	7/7/21	12:45 Central		Solid				X	1	
TS-01 (500-202086-8)	7/8/21	08:20 Central		Solid				X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hernandez	7/9/21 1630	ETA-CHI		7/10/21 9:20	ETA SOC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 1511172	Cooler Temperature(s) °C and Other Remarks: 2.5c

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-202086-1

Login Number: 202086
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

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	2.1,2.2
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: 500-202086-1

Login Number: 202086
List Number: 2
Creator: Cahill, Nicholas P

List Source: Eurofins TestAmerica, Sacramento
List Creation: 07/10/21 03:02 PM

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	1511172
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes

500-202086 Field Sheet

Tracking # : 1893445 25230

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-02 Corr. Factor: (+ / -) — °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal: 151172

Cooler ID: _____

Temp Observed: 2.5 °C Corrected: 2.5 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: JJ Date: 11/10/21

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JJ Date: 11/10/21

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☑	☐	☐

Initials: JJ Date: 11/10/21

Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202086-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-202086-5	PRE EAST SUMP	41	58	57	57	54	56	51	50
500-202086-6	PRE LARGE SUMP	37	36	35	38	35	39	39	38
500-202086-7	PRE WEST SUMP	39	53	53	55	53	55	52	54
500-202086-8	TS-01	45	49	47	50	50	50	48	44
LCS 320-506368/2-A	Lab Control Sample	76	79	77	79	79	82	85	81
MB 320-506368/1-A	Method Blank	75	74	73	79	73	78	75	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-202086-5	PRE EAST SUMP	52	42	59	53	57	47	45	43
500-202086-6	PRE LARGE SUMP	35	27	42	35	38	39	40	43
500-202086-7	PRE WEST SUMP	45	41	56	50	57	53	51	49
500-202086-8	TS-01	45	39	54	48	48	52	50	50
LCS 320-506368/2-A	Lab Control Sample	81	72	89	78	85	86	78	80
MB 320-506368/1-A	Method Blank	65	64	85	80	82	84	73	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-202086-5	PRE EAST SUMP	42	43	41	41	110	129	123	57
500-202086-6	PRE LARGE SUMP	35	29	25	27	52	62	81	37
500-202086-7	PRE WEST SUMP	48	42	40	40	95	126	113	54
500-202086-8	TS-01	48	47	28	30	74	86	85	48
LCS 320-506368/2-A	Lab Control Sample	83	81	57	58	76	80	79	77
MB 320-506368/1-A	Method Blank	77	75	48	52	72	78	79	71

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-202086-5	PRE EAST SUMP	100
500-202086-6	PRE LARGE SUMP	71
500-202086-7	PRE WEST SUMP	85
500-202086-8	TS-01	71
LCS 320-506368/2-A	Lab Control Sample	83
MB 320-506368/1-A	Method Blank	79

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-202086-1	EAST SUMP	80	90	95	94	98	96	92	91
500-202086-2	LARGE SUMP	81	87	89	92	92	92	90	83
500-202086-3	WEST SUMP	82	96	105	109	111	102	103	107
500-202086-4	FB-01	91	89	90	93	93	92	86	85
LCS 320-506020/2-A	Lab Control Sample	66	65	66	71	68	68	68	68
LCSD 320-506020/3-A	Lab Control Sample Dup	93	93	95	98	94	99	95	91
MB 320-506020/1-A	Method Blank	96	97	96	101	100	103	100	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-202086-1	EAST SUMP	79	81	108	93	91	98	74	86
500-202086-2	LARGE SUMP	81	69	101	91	90	91	69	78
500-202086-3	WEST SUMP	101	84	117	101	102	101	90	93
500-202086-4	FB-01	95	82	101	90	92	90	75	84
LCS 320-506020/2-A	Lab Control Sample	71	63	80	67	74	67	54	60
LCSD 320-506020/3-A	Lab Control Sample Dup	79	64	111	96	102	81	73	76
MB 320-506020/1-A	Method Blank	95	96	116	105	103	98	78	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-202086-1	EAST SUMP	81	75	74	71	122	136	114	93
500-202086-2	LARGE SUMP	66	65	62	65	113	108	92	91
500-202086-3	WEST SUMP	90	80	76	80	167 *5+	196 *5+	169 *5+	104
500-202086-4	FB-01	74	73	68	70	81	91	92	93
LCS 320-506020/2-A	Lab Control Sample	56	54	52	56	62	63	65	68
LCSD 320-506020/3-A	Lab Control Sample Dup	60	57	57	55	80	88	88	96
MB 320-506020/1-A	Method Blank	81	79	77	79	94	93	100	97

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-202086-1	EAST SUMP	102
500-202086-2	LARGE SUMP	91
500-202086-3	WEST SUMP	134
500-202086-4	FB-01	98
LCS 320-506020/2-A	Lab Control Sample	72
LCSD 320-506020/3-A	Lab Control Sample Dup	83
MB 320-506020/1-A	Method Blank	105

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-202086-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-202093-1
Client Project/Site: Former Mirro 20 - Chilton 1690019558

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

Attn: Duncan Glasford

Sandie Fredrick

Authorized for release by:
7/23/2021 4:21:27 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Job ID: 500-202093-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-202093-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 9:30 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 2.1º C.

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

GC/MS Semi VOA
Method 8270D: 1,4-Dichlorobenzene-d4 Internal standard (ISTD) responses for the following samples were outside of acceptance limits: (LB 500-610048/1-D) and (MB 500-610327/1-A). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270D: The following samples contained one base and one acid surrogate outside acceptance limits: (LB 500-610048/1-D) and (MB 500-610327/1-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.

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

GC Semi VOA
Method 8082A: The following sample contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor PCB-1260: LST-EAST (500-202093-1).

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: LST-WEST (500-202093-2), WST (500-202093-3) and (CCVIS 500-610307/2). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: LST-WEST (500-202093-2). Elevated reporting limits (RLs) are provided.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside the upper control limit: LST-WEST (500-202093-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: WST (500-202093-3). The sample has been quantified and reported as PCB-1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: WST (500-202093-3). The other surrogate was within 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
Method 6010B: The following sample was diluted due to the abundance of non-target analytes: WST (500-202093-3). 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.

LCMS

Job ID: 500-202093-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: WST (500-202093-3). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported values may have some high bias. However, analyst judgment was used to positively identify the analytes. WST (500-202093-3)

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value(may have some high bias. However, analyst judgment was used to positively identify the analyte. (CCB 320-507466/1)

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.

Organic Prep
Method SHAKE: The following sample was orange after extraction/final volume: WST (500-202093-3) PFC_IDA_WI Solid

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

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LST-EAST — Lab Sample ID: 500-202093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.026		0.024	0.0089	mg/Kg	1		8082A	Total/NA
Perfluorobutanoic acid (PFBA)	0.35	J	1.2	0.17	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.30	J	1.2	0.25	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.2	0.52	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.3	J	3.0	1.2	ug/Kg	1	☼	537 (modified)	Total/NA
Barium	1.4		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.092		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.50		0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		99.0	99.0	Degrees F	1		1010A	Total/NA
Cyanide, Total	0.17	J	0.21	0.10	mg/Kg	1		9012B	Total/NA
pH	7.6	HF	0.2	0.2	SU	1		9045D	Total/NA
Free Liquid	Fail				No Unit	1		9095B	Total/NA
Specific Gravity	1.1500				NONE	1		SM 2710F	Total/NA

Client Sample ID: LST-WEST — Lab Sample ID: 500-202093-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.1		0.36	0.15	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.13	J	0.36	0.070	ug/Kg	1	☼	537 (modified)	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0053		0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.38		0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		99.0	99.0	Degrees F	1		1010A	Total/NA
Cyanide, Total	0.22	J	0.23	0.12	mg/Kg	1		9012B	Total/NA
pH	7.9	HF	0.2	0.2	SU	1		9045D	Total/NA
Free Liquid	Fail				No Unit	1		9095B	Total/NA
Specific Gravity	1.4645				NONE	1		SM 2710F	Total/NA

Client Sample ID: WST — Lab Sample ID: 500-202093-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.29		0.12	0.041	mg/Kg	5		8082A	Total/NA
Perfluorobutanoic acid (PFBA)	0.23	J	0.32	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.12	J	0.32	0.12	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.76		0.32	0.14	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.060	J I	0.32	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.099	J	0.32	0.058	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTrDA)	0.083	J	0.32	0.082	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.095	J	0.32	0.087	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7	I	0.81	0.32	ug/Kg	1	☼	537 (modified)	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.034		0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	4.5		0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		99.0	99.0	Degrees F	1		1010A	Total/NA
Cyanide, Total	0.24		0.23	0.12	mg/Kg	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WST (Continued)
Lab Sample ID: 500-202093-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.1	HF	0.2	0.2	SU	1		9045D	Total/NA
Free Liquid	Fail				No Unit	1		9095B	Total/NA
Specific Gravity	1.5159				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9012B	Cyanide, Total andor Amenable	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
9095B	Paint Filter	SW846	TAL CHI
9251	Chlorine, Total	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5050	Bomb Preparation Method for Solid Waste	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL CHI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

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:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202093-1	LST-EAST	Solid	07/08/21 09:15	07/09/21 09:30
500-202093-2	LST-WEST	Solid	07/08/21 09:45	07/09/21 09:30
500-202093-3	WST	Solid	07/08/21 10:00	07/09/21 09:30

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LST-EAST
Lab Sample ID: 500-202093-1
Date Collected: 07/08/21 09:15
Matrix: Solid
Date Received: 07/09/21 09:30

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			07/21/21 11:44	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
Chloroform	<0.020		0.040	0.020	mg/L			07/21/21 11:44	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/21/21 11:44	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/21/21 11:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*07/21/21 11:44*	*20*
Toluene-d8 (Surr)	*96*		*75 - 120*		*07/21/21 11:44*	*20*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*07/21/21 11:44*	*20*
Dibromofluoromethane (Surr)	*110*		*75 - 120*		*07/21/21 11:44*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 13:11	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 13:11	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 13:11	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 13:11	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 13:11	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 13:11	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 13:11	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 13:11	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 13:11	1
Pyridine	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 13:11	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/23/21 06:52	07/23/21 13:11	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*34 - 110*	*07/23/21 06:52*	*07/23/21 13:11*	*1*
2-Fluorophenol (Surr)	*58*		*27 - 110*	*07/23/21 06:52*	*07/23/21 13:11*	*1*
Nitrobenzene-d5 (Surr)	*97*		*36 - 120*	*07/23/21 06:52*	*07/23/21 13:11*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*07/23/21 06:52*	*07/23/21 13:11*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*07/23/21 06:52*	*07/23/21 13:11*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*40 - 145*	*07/23/21 06:52*	*07/23/21 13:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0092		0.024	0.0092	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1221	<0.0092		0.024	0.0092	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1232	<0.0064		0.024	0.0064	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1242	<0.0091		0.024	0.0091	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1248	<0.011		0.024	0.011	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1254	<0.0080		0.024	0.0080	mg/Kg		07/20/21 06:29	07/20/21 18:10	1
PCB-1260	**0.026**		0.024	0.0089	mg/Kg		07/20/21 06:29	07/20/21 18:10	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-EAST

Date Collected: 07/08/21 09:15
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*49 - 129*	*07/20/21 06:29*	*07/20/21 18:10*	*1*
DCB Decachlorobiphenyl	*56*		*37 - 121*	*07/20/21 06:29*	*07/20/21 18:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/20/21 18:03	07/21/21 16:55	1
Barium	**1.4**		0.50	0.050	mg/L		07/20/21 18:03	07/21/21 16:55	1
Cadmium	**0.0032**	**J**	0.0050	0.0020	mg/L		07/20/21 18:03	07/21/21 16:55	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:55	1
Lead	<0.0075		0.050	0.0075	mg/L		07/20/21 18:03	07/23/21 11:48	1
Selenium	<0.020		0.050	0.020	mg/L		07/20/21 18:03	07/21/21 16:55	1
Silver	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:55	1
Copper	**0.092**		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:55	1
Nickel	**0.040**		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:55	1
Zinc	**0.50**		0.10	0.020	mg/L		07/20/21 18:03	07/21/21 16:55	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		07/21/21 10:35	07/22/21 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		99.0	99.0	Degrees F			07/21/21 10:17	1
Cyanide, Total	**0.17**	**J**	0.21	0.10	mg/Kg		07/21/21 20:05	07/22/21 10:37	1
Sulfide	<4.4		9.4	4.4	mg/Kg		07/13/21 12:24	07/13/21 15:14	1
pH	**7.6**	**HF**	0.2	0.2	SU			07/14/21 19:40	1
Free Liquid	**Fail**				No Unit			07/12/21 14:40	1
Total Chlorine	<990		990	990	mg/Kg		07/22/21 13:22	07/22/21 17:39	1
Specific Gravity	**1.1500**				NONE			07/21/21 13:30	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-EAST
Date Collected: 07/08/21 09:15
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-1
Matrix: Solid
Percent Solids: 16.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.35**	**J**	1.2	0.17	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.2	0.46	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorohexanoic acid (PFHxA)	**0.30**	**J**	1.2	0.25	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluoroheptanoic acid (PFHpA)	<0.17		1.2	0.17	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorooctanoic acid (PFOA)	**3.9**		1.2	0.52	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorononanoic acid (PFNA)	<0.22		1.2	0.22	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorodecanoic acid (PFDA)	<0.13		1.2	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluoroundecanoic acid (PFUnA)	<0.22		1.2	0.22	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorododecanoic acid (PFDoA)	<0.40		1.2	0.40	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorotridecanoic acid (PFTrDA)	<0.31		1.2	0.31	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.32		1.2	0.32	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.15		1.2	0.15	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.12		1.2	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.19		1.2	0.19	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.21		1.2	0.21	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorooctanesulfonic acid (PFOS)	**1.3**	**J**	3.0	1.2	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorononanesulfonic acid (PFNS)	<0.12		1.2	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.23		1.2	0.23	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.36		1.2	0.36	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
Perfluorooctanesulfonamide (FOSA)	<0.49		1.2	0.49	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NEtFOSA	<0.14		1.2	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NMeFOSA	<0.25		1.2	0.25	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NMeFOSAA	<2.3		12	2.3	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NEtFOSAA	<2.2		12	2.2	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NMeFOSE	<0.43		1.2	0.43	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
NEtFOSE	<0.22		1.2	0.22	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
4:2 FTS	<2.2		12	2.2	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
6:2 FTS	<0.90		12	0.90	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
8:2 FTS	<1.5		12	1.5	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.11		1.2	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
HFPO-DA (GenX)	<0.66		1.5	0.66	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
9Cl-PF3ONS	<0.16		1.2	0.16	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1
11Cl-PF3OUdS	<0.13		1.2	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*39*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C5 PFPeA	*51*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C2 PFHxA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C4 PFHpA	*49*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C4 PFOA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C5 PFNA	*45*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C2 PFDA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C2 PFUnA	*43*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C2 PFDoA	*43*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C2 PFTeDA	*33*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*
13C3 PFBS	*54*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:44*	*1*

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-EAST
Date Collected: 07/08/21 09:15
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-1
Matrix: Solid
Percent Solids: 16.0

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	49		25 - 150	07/13/21 19:40	07/15/21 04:44	1
13C4 PFOS	51		25 - 150	07/13/21 19:40	07/15/21 04:44	1
13C8 FOSA	41		10 - 150	07/13/21 19:40	07/15/21 04:44	1
d3-NMeFOSAA	33		25 - 150	07/13/21 19:40	07/15/21 04:44	1
d5-NEtFOSAA	34		25 - 150	07/13/21 19:40	07/15/21 04:44	1
d-N-MeFOSA-M	40		10 - 150	07/13/21 19:40	07/15/21 04:44	1
d-N-EtFOSA-M	37		10 - 150	07/13/21 19:40	07/15/21 04:44	1
d7-N-MeFOSE-M	33		10 - 150	07/13/21 19:40	07/15/21 04:44	1
d9-N-EtFOSE-M	31		10 - 150	07/13/21 19:40	07/15/21 04:44	1
M2-4:2 FTS	89		25 - 150	07/13/21 19:40	07/15/21 04:44	1
M2-6:2 FTS	107		25 - 150	07/13/21 19:40	07/15/21 04:44	1
M2-8:2 FTS	95		25 - 150	07/13/21 19:40	07/15/21 04:44	1
13C3 HFPO-DA	52		25 - 150	07/13/21 19:40	07/15/21 04:44	1
13C2 10:2 FTS	87		25 - 150	07/13/21 19:40	07/15/21 04:44	1

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LST-WEST
Lab Sample ID: 500-202093-2
Date Collected: 07/08/21 09:45
Matrix: Solid
Date Received: 07/09/21 09:30

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			07/21/21 12:12	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
Chloroform	<0.020		0.040	0.020	mg/L			07/21/21 12:12	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/21/21 12:12	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/21/21 12:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*07/21/21 12:12*	*20*
Toluene-d8 (Surr)	*96*		*75 - 120*		*07/21/21 12:12*	*20*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*07/21/21 12:12*	*20*
Dibromofluoromethane (Surr)	*113*		*75 - 120*		*07/21/21 12:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:47	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:47	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:47	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:47	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:47	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:47	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:47	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:47	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:47	1
Pyridine	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:47	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/23/21 06:52	07/23/21 12:47	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*34 - 110*	*07/23/21 06:52*	*07/23/21 12:47*	*1*
2-Fluorophenol (Surr)	*58*		*27 - 110*	*07/23/21 06:52*	*07/23/21 12:47*	*1*
Nitrobenzene-d5 (Surr)	*65*		*36 - 120*	*07/23/21 06:52*	*07/23/21 12:47*	*1*
Phenol-d5 (Surr)	*26*		*20 - 100*	*07/23/21 06:52*	*07/23/21 12:47*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:47*	*1*
2,4,6-Tribromophenol (Surr)	*106*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.092		0.23	0.092	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1221	<0.092		0.23	0.092	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1232	<0.063		0.23	0.063	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1242	<0.091		0.23	0.091	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1248	<0.11		0.23	0.11	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1254	<0.079		0.23	0.079	mg/Kg		07/20/21 06:29	07/21/21 07:20	10
PCB-1260	<0.088		0.23	0.088	mg/Kg		07/20/21 06:29	07/21/21 07:20	10

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LST-WEST
Lab Sample ID: 500-202093-2
Date Collected: 07/08/21 09:45
Matrix: Solid
Date Received: 07/09/21 09:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*49 - 129*	*07/20/21 06:29*	*07/21/21 07:20*	*10*
DCB Decachlorobiphenyl	*5196*	*S1+*	*37 - 121*	*07/20/21 06:29*	*07/21/21 07:20*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/20/21 18:03	07/21/21 16:04	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		07/20/21 18:03	07/21/21 16:04	1
Cadmium	**0.0053**		0.0050	0.0020	mg/L		07/20/21 18:03	07/21/21 16:04	1
Chromium	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:04	1
Lead	<0.0075		0.050	0.0075	mg/L		07/20/21 18:03	07/23/21 02:46	1
Selenium	<0.020		0.050	0.020	mg/L		07/20/21 18:03	07/21/21 16:04	1
Silver	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:04	1
Copper	**0.052**		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:04	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:04	1
Zinc	**0.38**		0.10	0.020	mg/L		07/20/21 18:03	07/21/21 16:04	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		07/21/21 10:35	07/22/21 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		99.0	99.0	Degrees F			07/21/21 11:41	1
Cyanide, Total	**0.22**	**J**	0.23	0.12	mg/Kg		07/21/21 20:05	07/22/21 10:39	1
Sulfide	<4.4		9.3	4.4	mg/Kg		07/13/21 12:33	07/13/21 15:17	1
pH	**7.9**	**HF**	0.2	0.2	SU			07/14/21 19:43	1
Free Liquid	**Fail**				No Unit			07/12/21 14:42	1
Total Chlorine	<910		910	910	mg/Kg		07/22/21 13:22	07/22/21 17:39	1
Specific Gravity	**1.4645**				NONE			07/21/21 13:41	1

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-WEST
Date Collected: 07/08/21 09:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-2
Matrix: Solid
Percent Solids: 53.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.050		0.36	0.050	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluoropentanoic acid (PFPeA)	<0.14		0.36	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorohexanoic acid (PFHxA)	<0.075		0.36	0.075	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluoroheptanoic acid (PFHpA)	<0.052		0.36	0.052	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorooctanoic acid (PFOA)	**1.1**		0.36	0.15	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorononanoic acid (PFNA)	<0.064		0.36	0.064	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorodecanoic acid (PFDA)	<0.039		0.36	0.039	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluoroundecanoic acid (PFUnA)	<0.064		0.36	0.064	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorododecanoic acid (PFDoA)	<0.12		0.36	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorotridecanoic acid (PFTrDA)	<0.091		0.36	0.091	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.097		0.36	0.097	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.045		0.36	0.045	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.036		0.36	0.036	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.056		0.36	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.063		0.36	0.063	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.36		0.90	0.36	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorononanesulfonic acid (PFNS)	<0.036		0.36	0.036	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorodecanesulfonic acid (PFDS)	**0.13**	**J**	0.36	0.070	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.11		0.36	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
Perfluorooctanesulfonamide (FOSA)	<0.15		0.36	0.15	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NEtFOSA	<0.043		0.36	0.043	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NMeFOSA	<0.073		0.36	0.073	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NMeFOSAA	<0.70		3.6	0.70	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NEtFOSAA	<0.66		3.6	0.66	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NMeFOSE	<0.13		0.36	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
NEtFOSE	<0.064		0.36	0.064	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
4:2 FTS	<0.66		3.6	0.66	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
6:2 FTS	<0.27		3.6	0.27	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
8:2 FTS	<0.45		3.6	0.45	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.032		0.36	0.032	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
HFPO-DA (GenX)	<0.20		0.45	0.20	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
9Cl-PF3ONS	<0.048		0.36	0.048	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1
11Cl-PF3OUdS	<0.039		0.36	0.039	ug/Kg	☼	07/13/21 19:40	07/15/21 04:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*61*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C5 PFPeA	*63*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C2 PFHxA	*64*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C4 PFHpA	*66*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C4 PFOA	*60*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C5 PFNA	*62*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C2 PFDA	*64*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C2 PFUnA	*55*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C2 PFDoA	*54*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C2 PFTeDA	*39*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*
13C3 PFBS	*68*		*25 - 150*	*07/13/21 19:40*	*07/15/21 04:53*	*1*

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-WEST
Date Collected: 07/08/21 09:45
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-2
Matrix: Solid
Percent Solids: 53.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	62		25 - 150	07/13/21 19:40	07/15/21 04:53	1
13C4 PFOS	64		25 - 150	07/13/21 19:40	07/15/21 04:53	1
13C8 FOSA	59		10 - 150	07/13/21 19:40	07/15/21 04:53	1
d3-NMeFOSAA	51		25 - 150	07/13/21 19:40	07/15/21 04:53	1
d5-NEtFOSAA	52		25 - 150	07/13/21 19:40	07/15/21 04:53	1
d-N-MeFOSA-M	51		10 - 150	07/13/21 19:40	07/15/21 04:53	1
d-N-EtFOSA-M	45		10 - 150	07/13/21 19:40	07/15/21 04:53	1
d7-N-MeFOSE-M	39		10 - 150	07/13/21 19:40	07/15/21 04:53	1
d9-N-EtFOSE-M	36		10 - 150	07/13/21 19:40	07/15/21 04:53	1
M2-4:2 FTS	132		25 - 150	07/13/21 19:40	07/15/21 04:53	1
M2-6:2 FTS	132		25 - 150	07/13/21 19:40	07/15/21 04:53	1
M2-8:2 FTS	132		25 - 150	07/13/21 19:40	07/15/21 04:53	1
13C3 HFPO-DA	63		25 - 150	07/13/21 19:40	07/15/21 04:53	1
13C2 10:2 FTS	104		25 - 150	07/13/21 19:40	07/15/21 04:53	1

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: WST
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-3
Matrix: Solid

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			07/21/21 12:40	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
Chloroform	<0.020		0.040	0.020	mg/L			07/21/21 12:40	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/21/21 12:40	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/21/21 12:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 126*		*07/21/21 12:40*	*20*
Toluene-d8 (Surr)	*90*		*75 - 120*		*07/21/21 12:40*	*20*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*07/21/21 12:40*	*20*
Dibromofluoromethane (Surr)	*115*		*75 - 120*		*07/21/21 12:40*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:24	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:24	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:24	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:24	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:24	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:24	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:24	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:24	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:24	1
Pyridine	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:24	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/23/21 06:52	07/23/21 12:24	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*34 - 110*	*07/23/21 06:52*	*07/23/21 12:24*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*07/23/21 06:52*	*07/23/21 12:24*	*1*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*	*07/23/21 06:52*	*07/23/21 12:24*	*1*
Phenol-d5 (Surr)	*26*		*20 - 100*	*07/23/21 06:52*	*07/23/21 12:24*	*1*
Terphenyl-d14 (Surr)	*115*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:24*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.047		0.12	0.047	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1221	<0.047		0.12	0.047	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1232	<0.033		0.12	0.033	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1242	<0.047		0.12	0.047	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1248	<0.057		0.12	0.057	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1254	**0.29**		0.12	0.041	mg/Kg		07/20/21 06:29	07/21/21 07:36	5
PCB-1260	<0.045		0.12	0.045	mg/Kg		07/20/21 06:29	07/21/21 07:36	5

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: WST

Date Collected: 07/08/21 10:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*49 - 129*	*07/20/21 06:29*	*07/21/21 07:36*	*5*
DCB Decachlorobiphenyl	*358*	*S1+*	*37 - 121*	*07/20/21 06:29*	*07/21/21 07:36*	*5*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/20/21 18:03	07/21/21 16:07	1
Barium	**0.62**		0.50	0.050	mg/L		07/20/21 18:03	07/21/21 16:07	1
Cadmium	**0.034**		0.0050	0.0020	mg/L		07/20/21 18:03	07/21/21 16:07	1
Chromium	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:07	1
Lead	<0.0075		0.050	0.0075	mg/L		07/20/21 18:03	07/21/21 16:07	1
Selenium	<0.020		0.050	0.020	mg/L		07/20/21 18:03	07/21/21 16:07	1
Silver	<0.050	F1	0.13	0.050	mg/L		07/20/21 18:03	07/23/21 02:50	5
Copper	**0.021**	**J**	0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:07	1
Nickel	**0.11**		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:07	1
Zinc	**4.5**		0.10	0.020	mg/L		07/20/21 18:03	07/21/21 16:07	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		07/21/21 10:35	07/22/21 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		99.0	99.0	Degrees F			07/21/21 13:06	1
Cyanide, Total	**0.24**		0.23	0.12	mg/Kg		07/21/21 20:05	07/22/21 10:40	1
Sulfide	<4.5		9.6	4.5	mg/Kg		07/13/21 12:42	07/13/21 15:20	1
pH	**8.1**	**HF**	0.2	0.2	SU			07/14/21 19:45	1
Free Liquid	**Fail**				No Unit			07/12/21 14:43	1
Total Chlorine	<950		950	950	mg/Kg		07/22/21 13:22	07/22/21 17:39	1
Specific Gravity	**1.5159**				NONE			07/22/21 14:25	1

Client Sample ID: WST

Date Collected: 07/08/21 10:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-3

Matrix: Solid
Percent Solids: 57.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.23**	**J**	0.32	0.045	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluoropentanoic acid (PFPeA)	**0.12**	**J**	0.32	0.12	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorohexanoic acid (PFHxA)	<0.068		0.32	0.068	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluoroheptanoic acid (PFHpA)	<0.047		0.32	0.047	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorooctanoic acid (PFOA)	**0.76**		0.32	0.14	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorononanoic acid (PFNA)	<0.058		0.32	0.058	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorodecanoic acid (PFDA)	**0.060**	**J I**	0.32	0.035	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluoroundecanoic acid (PFUnA)	**0.099**	**J**	0.32	0.058	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorododecanoic acid (PFDoA)	<0.11		0.32	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorotridecanoic acid (PFTrDA)	**0.083**	**J**	0.32	0.082	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorotetradecanoic acid (PFTeA)	**0.095**	**J**	0.32	0.087	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.040		0.32	0.040	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.032		0.32	0.032	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.050		0.32	0.050	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.056		0.32	0.056	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorooctanesulfonic acid (PFOS)	**2.7**	**I**	0.81	0.32	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.32	0.032	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.063		0.32	0.063	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.097		0.32	0.097	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
Perfluorooctanesulfonamide (FOSA)	<0.13		0.32	0.13	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NEtFOSA	<0.039		0.32	0.039	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NMeFOSA	<0.066		0.32	0.066	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NMeFOSAA	<0.63		3.2	0.63	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NEtFOSAA	<0.60		3.2	0.60	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NMeFOSE	<0.11		0.32	0.11	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
NEtFOSE	<0.058		0.32	0.058	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
4:2 FTS	<0.60		3.2	0.60	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
6:2 FTS	<0.24		3.2	0.24	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
8:2 FTS	<0.40		3.2	0.40	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.029		0.32	0.029	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
HFPO-DA (GenX)	<0.18		0.40	0.18	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
9Cl-PF3ONS	<0.043		0.32	0.043	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1
11Cl-PF3OUdS	<0.035		0.32	0.035	ug/Kg	☼	07/13/21 19:40	07/15/21 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*19*	**5-*	*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C5 PFPeA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C2 PFHxA	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C4 PFHpA	*50*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C4 PFOA	*48*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C5 PFNA	*47*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C2 PFDA	*44*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C2 PFUnA	*40*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*
13C2 PFDoA	*35*		*25 - 150*	*07/13/21 19:40*	*07/15/21 05:03*	*1*

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: WST
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 09:30

Lab Sample ID: 500-202093-3
Matrix: Solid
Percent Solids: 57.9

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	34		25 - 150	07/13/21 19:40	07/15/21 05:03	1
13C3 PFBS	51		25 - 150	07/13/21 19:40	07/15/21 05:03	1
18O2 PFHxS	45		25 - 150	07/13/21 19:40	07/15/21 05:03	1
13C4 PFOS	49		25 - 150	07/13/21 19:40	07/15/21 05:03	1
13C8 FOSA	39		10 - 150	07/13/21 19:40	07/15/21 05:03	1
d3-NMeFOSAA	35		25 - 150	07/13/21 19:40	07/15/21 05:03	1
d5-NEtFOSAA	30		25 - 150	07/13/21 19:40	07/15/21 05:03	1
d-N-MeFOSA-M	35		10 - 150	07/13/21 19:40	07/15/21 05:03	1
d-N-EtFOSA-M	31		10 - 150	07/13/21 19:40	07/15/21 05:03	1
d7-N-MeFOSE-M	30		10 - 150	07/13/21 19:40	07/15/21 05:03	1
d9-N-EtFOSE-M	30		10 - 150	07/13/21 19:40	07/15/21 05:03	1
M2-4:2 FTS	110		25 - 150	07/13/21 19:40	07/15/21 05:03	1
M2-6:2 FTS	140		25 - 150	07/13/21 19:40	07/15/21 05:03	1
M2-8:2 FTS	111		25 - 150	07/13/21 19:40	07/15/21 05:03	1
13C3 HFPO-DA	49		25 - 150	07/13/21 19:40	07/15/21 05:03	1
13C2 10:2 FTS	72		25 - 150	07/13/21 19:40	07/15/21 05:03	1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
I	Value is EMPC (estimated maximum possible concentration).
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
¤	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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

GC/MS VOA

Leach Batch: 610109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	1311	
500-202093-2	LST-WEST	TCLP	Solid	1311	
500-202093-3	WST	TCLP	Solid	1311	
LB 500-610109/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 610372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	8260B	610109
500-202093-2	LST-WEST	TCLP	Solid	8260B	610109
500-202093-3	WST	TCLP	Solid	8260B	610109
LB 500-610109/1-A	Method Blank	TCLP	Solid	8260B	610109
MB 500-610372/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-610372/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 610048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	TCLP	Solid	1311	
500-202093-3	WST	TCLP	Solid	1311	
LB 500-610048/1-G	Method Blank	TCLP	Solid	1311	

Leach Batch: 610050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	1311	
LB2 500-610050/1-D	Method Blank	TCLP	Solid	1311	
500-202093-1 MS	LST-EAST	TCLP	Solid	1311	

Prep Batch: 610742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	3510C	610050
500-202093-2	LST-WEST	TCLP	Solid	3510C	610048
500-202093-3	WST	TCLP	Solid	3510C	610048
LB 500-610048/1-G	Method Blank	TCLP	Solid	3510C	610048
LB2 500-610050/1-D	Method Blank	TCLP	Solid	3510C	610050
MB 500-610742/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-610742/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-202093-1 MS	LST-EAST	TCLP	Solid	3510C	610050

Analysis Batch: 610813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-610048/1-G	Method Blank	TCLP	Solid	8270D	610742
LB2 500-610050/1-D	Method Blank	TCLP	Solid	8270D	610742
MB 500-610742/1-A	Method Blank	Total/NA	Solid	8270D	610742
LCS 500-610742/2-A	Lab Control Sample	Total/NA	Solid	8270D	610742

Analysis Batch: 610828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	8270D	610742
500-202093-2	LST-WEST	TCLP	Solid	8270D	610742
500-202093-3	WST	TCLP	Solid	8270D	610742

GC/MS Semi VOA (Continued)

Analysis Batch: 610828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1 MS	LST-EAST	TCLP	Solid	8270D	610742

GC Semi VOA

Prep Batch: 610096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	3541	
500-202093-2	LST-WEST	Total/NA	Solid	3541	
500-202093-3	WST	Total/NA	Solid	3541	
MB 500-610096/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-610096/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 610222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	8082A	610096
MB 500-610096/1-A	Method Blank	Total/NA	Solid	8082A	610096
LCS 500-610096/3-A	Lab Control Sample	Total/NA	Solid	8082A	610096

Analysis Batch: 610307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	Total/NA	Solid	8082A	610096
500-202093-3	WST	Total/NA	Solid	8082A	610096

LCMS

Prep Batch: 506368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	SHAKE	
500-202093-2	LST-WEST	Total/NA	Solid	SHAKE	
500-202093-3	WST	Total/NA	Solid	SHAKE	
MB 320-506368/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-506368/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 506671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	537 (modified)	506368
500-202093-2	LST-WEST	Total/NA	Solid	537 (modified)	506368
500-202093-3	WST	Total/NA	Solid	537 (modified)	506368

Analysis Batch: 507469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-506368/1-A	Method Blank	Total/NA	Solid	537 (modified)	506368
LCS 320-506368/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	506368

Metals

Leach Batch: 610048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	TCLP	Solid	1311	
500-202093-3	WST	TCLP	Solid	1311	
LB 500-610048/1-B	Method Blank	TCLP	Solid	1311	
LB 500-610048/1-F	Method Blank	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 610048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-3 MS	WST	TCLP	Solid	1311	
500-202093-3 DU	WST	TCLP	Solid	1311	

Leach Batch: 610050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	1311	
LB2 500-610050/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-610050/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 610293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	3010A	610050
500-202093-2	LST-WEST	TCLP	Solid	3010A	610048
500-202093-3	WST	TCLP	Solid	3010A	610048
LB 500-610048/1-B	Method Blank	TCLP	Solid	3010A	610048
LB2 500-610050/1-B	Method Blank	TCLP	Solid	3010A	610050
LCS 500-610293/15-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-610293/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-202093-3 MS	WST	TCLP	Solid	3010A	610048
500-202093-3 DU	WST	TCLP	Solid	3010A	610048

Prep Batch: 610417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	7470A	610050
LB2 500-610050/1-C	Method Blank	TCLP	Solid	7470A	610050
MB 500-610417/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-610417/29-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 610419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	TCLP	Solid	7470A	610048
500-202093-3	WST	TCLP	Solid	7470A	610048
LB 500-610048/1-F	Method Blank	TCLP	Solid	7470A	610048
MB 500-610419/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-610419/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 610607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	6010B	610293
500-202093-2	LST-WEST	TCLP	Solid	6010B	610293
500-202093-3	WST	TCLP	Solid	6010B	610293
LB 500-610048/1-B	Method Blank	TCLP	Solid	6010B	610293
LB2 500-610050/1-B	Method Blank	TCLP	Solid	6010B	610293
LCS 500-610293/15-A	Lab Control Sample	Total/NA	Solid	6010B	610293
LCS 500-610293/2-A	Lab Control Sample	Total/NA	Solid	6010B	610293
500-202093-3 MS	WST	TCLP	Solid	6010B	610293
500-202093-3 DU	WST	TCLP	Solid	6010B	610293

Analysis Batch: 610671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	7470A	610417

Metals (Continued)

Analysis Batch: 610671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	TCLP	Solid	7470A	610419
500-202093-3	WST	TCLP	Solid	7470A	610419
LB 500-610048/1-F	Method Blank	TCLP	Solid	7470A	610419
LB2 500-610050/1-C	Method Blank	TCLP	Solid	7470A	610417
MB 500-610417/12-A	Method Blank	Total/NA	Solid	7470A	610417
MB 500-610419/12-A	Method Blank	Total/NA	Solid	7470A	610419
LCS 500-610417/29-A	Lab Control Sample	Total/NA	Solid	7470A	610417
LCS 500-610419/14-A	Lab Control Sample	Total/NA	Solid	7470A	610419

Analysis Batch: 610790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-2	LST-WEST	TCLP	Solid	6010B	610293
500-202093-3	WST	TCLP	Solid	6010B	610293
500-202093-3 MS	WST	TCLP	Solid	6010B	610293
500-202093-3 DU	WST	TCLP	Solid	6010B	610293

Analysis Batch: 610902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	TCLP	Solid	6010B	610293

General Chemistry

Prep Batch: 608933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9030B	
500-202093-2	LST-WEST	Total/NA	Solid	9030B	
500-202093-3	WST	Total/NA	Solid	9030B	
MB 500-608933/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-608933/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 608938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9095B	
500-202093-2	LST-WEST	Total/NA	Solid	9095B	
500-202093-3	WST	Total/NA	Solid	9095B	

Analysis Batch: 609148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9034	608933
500-202093-2	LST-WEST	Total/NA	Solid	9034	608933
500-202093-3	WST	Total/NA	Solid	9034	608933
MB 500-608933/1-A	Method Blank	Total/NA	Solid	9034	608933
LCS 500-608933/2-A	Lab Control Sample	Total/NA	Solid	9034	608933

Analysis Batch: 609323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	Moisture	
500-202093-2	LST-WEST	Total/NA	Solid	Moisture	
500-202093-3	WST	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 609430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9045D	
500-202093-2	LST-WEST	Total/NA	Solid	9045D	
500-202093-3	WST	Total/NA	Solid	9045D	
LCS 500-609430/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-609430/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 610474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	SM 2710F	
500-202093-2	LST-WEST	Total/NA	Solid	SM 2710F	
500-202093-1 DU	LST-EAST	Total/NA	Solid	SM 2710F	

Prep Batch: 610509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9010C	
500-202093-2	LST-WEST	Total/NA	Solid	9010C	
500-202093-3	WST	Total/NA	Solid	9010C	
MB 500-610509/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-610509/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-610509/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-610509/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 610661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9012B	610509
500-202093-2	LST-WEST	Total/NA	Solid	9012B	610509
500-202093-3	WST	Total/NA	Solid	9012B	610509
MB 500-610509/1-A	Method Blank	Total/NA	Solid	9012B	610509
HLCS 500-610509/2-A	Lab Control Sample	Total/NA	Solid	9012B	610509
LCS 500-610509/3-A	Lab Control Sample	Total/NA	Solid	9012B	610509
LLCS 500-610509/4-A	Lab Control Sample	Total/NA	Solid	9012B	610509

Analysis Batch: 610669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	1010A	
500-202093-2	LST-WEST	Total/NA	Solid	1010A	
500-202093-3	WST	Total/NA	Solid	1010A	

Analysis Batch: 610701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-3	WST	Total/NA	Solid	SM 2710F	
500-202093-3 DU	WST	Total/NA	Solid	SM 2710F	

Prep Batch: 677670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	5050	
500-202093-2	LST-WEST	Total/NA	Solid	5050	
500-202093-3	WST	Total/NA	Solid	5050	
MB 680-677670/1-A	Method Blank	Total/NA	Solid	5050	
LCS 680-677670/2-A	Lab Control Sample	Total/NA	Solid	5050	

QC Association Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

General Chemistry

Analysis Batch: 677709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202093-1	LST-EAST	Total/NA	Solid	9251	677670
500-202093-2	LST-WEST	Total/NA	Solid	9251	677670
500-202093-3	WST	Total/NA	Solid	9251	677670
MB 680-677670/1-A	Method Blank	Total/NA	Solid	9251	677670
LCS 680-677670/2-A	Lab Control Sample	Total/NA	Solid	9251	677670

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
LCS 500-610372/4	Lab Control Sample	109	98	84	106
MB 500-610372/6	Method Blank	111	94	87	111

Surrogate Legend

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

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

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-202093-1	LST-EAST	112	96	88	110
500-202093-2	LST-WEST	108	96	87	113
500-202093-3	WST	118	90	87	115
LB 500-610109/1-A	Method Blank	116	91	87	113

Surrogate Legend

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

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)	(40-145)
LCS 500-610742/2-A	Lab Control Sample	83	58	71	40	103	63
MB 500-610742/1-A	Method Blank	70	46	63	31	95	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: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)	(40-145)
500-202093-1	LST-EAST	86	58	97	30	118	81
500-202093-1 MS	LST-EAST	101	48	67	36	112	111
500-202093-2	LST-WEST	89	58	65	26	113	106

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)	(40-145)
500-202093-3	WST	81	50	75	26	115	108
LB 500-610048/1-G	Method Blank	84	32	76	29	106	71
LB2 500-610050/1-D	Method Blank	83	45	77	30	110	75

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**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-202093-1	LST-EAST	62	56
500-202093-2	LST-WEST	93	5196 S1+
500-202093-3	WST	81	358 S1+
LCS 500-610096/3-A	Lab Control Sample	98	114
MB 500-610096/1-A	Method Blank	100	112

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 500-610372/6
Matrix: Solid
Analysis Batch: 610372

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			07/21/21 09:53	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			07/21/21 09:53	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
2-Butanone (MEK)	<0.0025		0.0050	0.0025	mg/L			07/21/21 09:53	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			07/21/21 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*		*07/21/21 09:53*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*07/21/21 09:53*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*07/21/21 09:53*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 120*		*07/21/21 09:53*	*1*

Lab Sample ID: LCS 500-610372/4
Matrix: Solid
Analysis Batch: 610372

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	0.0477		mg/L		95	70 - 120
Carbon tetrachloride	0.0500	0.0577		mg/L		115	59 - 133
Chlorobenzene	0.0500	0.0454		mg/L		91	70 - 120
Chloroform	0.0500	0.0482		mg/L		96	70 - 120
1,2-Dichloroethane	0.0500	0.0471		mg/L		94	68 - 127
1,1-Dichloroethene	0.0500	0.0462		mg/L		92	67 - 122
2-Butanone (MEK)	0.0500	0.0452		mg/L		90	46 - 144
Tetrachloroethene	0.0500	0.0509		mg/L		102	70 - 128
Trichloroethene	0.0500	0.0508		mg/L		102	70 - 125
Vinyl chloride	0.0500	0.0383		mg/L		77	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*84*		*72 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 120*

Lab Sample ID: LB 500-610109/1-A
Matrix: Solid
Analysis Batch: 610372

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			07/21/21 10:21	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
Chloroform	<0.020		0.040	0.020	mg/L			07/21/21 10:21	20

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

Lab Sample ID: LB 500-610109/1-A
Matrix: Solid
Analysis Batch: 610372

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
2-Butanone (MEK)	<0.050		0.10	0.050	mg/L			07/21/21 10:21	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/21/21 10:21	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*		*07/21/21 10:21*	*20*
Toluene-d8 (Surr)	*91*		*75 - 120*		*07/21/21 10:21*	*20*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*07/21/21 10:21*	*20*
Dibromofluoromethane (Surr)	*113*		*75 - 120*		*07/21/21 10:21*	*20*

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

Lab Sample ID: MB 500-610742/1-A
Matrix: Solid
Analysis Batch: 610813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		07/23/21 06:52	07/23/21 12:04	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		07/23/21 06:52	07/23/21 12:04	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		07/23/21 06:52	07/23/21 12:04	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:04	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:04	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		07/23/21 06:52	07/23/21 12:04	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		07/23/21 06:52	07/23/21 12:04	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		07/23/21 06:52	07/23/21 12:04	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:04	1
Pyridine	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:04	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:04	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*34 - 110*	*07/23/21 06:52*	*07/23/21 12:04*	*1*
2-Fluorophenol (Surr)	*46*		*27 - 110*	*07/23/21 06:52*	*07/23/21 12:04*	*1*
Nitrobenzene-d5 (Surr)	*63*		*36 - 120*	*07/23/21 06:52*	*07/23/21 12:04*	*1*
Phenol-d5 (Surr)	*31*		*20 - 100*	*07/23/21 06:52*	*07/23/21 12:04*	*1*
Terphenyl-d14 (Surr)	*95*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:04*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:04*	*1*

Lab Sample ID: LCS 500-610742/2-A
Matrix: Solid
Analysis Batch: 610813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0247		mg/L		62	23 - 110
2,4-Dinitrotoluene	0.0400	0.0378		mg/L		95	63 - 129

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

Lab Sample ID: LCS 500-610742/2-A
Matrix: Solid
Analysis Batch: 610813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	0.0400	0.0287		mg/L		72	61 - 126
Hexachlorobutadiene	0.0400	0.0192		mg/L		48	20 - 100
Hexachloroethane	0.0400	0.0199		mg/L		50	20 - 100
2-Methylphenol	0.0400	0.0269		mg/L		67	53 - 115
3 & 4 Methylphenol	0.0400	0.0242		mg/L		61	50 - 116
Nitrobenzene	0.0400	0.0263		mg/L		66	54 - 121
Pentachlorophenol	0.0800	0.0335		mg/L		42	42 - 148
Pyridine	0.0800	0.0379		mg/L		47	15 - 110
2,4,5-Trichlorophenol	0.0400	0.0311		mg/L		78	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0309		mg/L		77	62 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*34 - 110*
2-Fluorophenol (Surr)	*58*		*27 - 110*
Nitrobenzene-d5 (Surr)	*71*		*36 - 120*
Phenol-d5 (Surr)	*40*		*20 - 100*
Terphenyl-d14 (Surr)	*103*		*40 - 145*
2,4,6-Tribromophenol (Surr)	*63*		*40 - 145*

Lab Sample ID: LB 500-610048/1-G
Matrix: Solid
Analysis Batch: 610813

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610742

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 11:43	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 11:43	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 11:43	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 11:43	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 11:43	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 11:43	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 11:43	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 11:43	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 11:43	1
Pyridine	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 11:43	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/23/21 06:52	07/23/21 11:43	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 11:43	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*34 - 110*	*07/23/21 06:52*	*07/23/21 11:43*	*1*
2-Fluorophenol (Surr)	*32*		*27 - 110*	*07/23/21 06:52*	*07/23/21 11:43*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*07/23/21 06:52*	*07/23/21 11:43*	*1*
Phenol-d5 (Surr)	*29*		*20 - 100*	*07/23/21 06:52*	*07/23/21 11:43*	*1*
Terphenyl-d14 (Surr)	*106*		*40 - 145*	*07/23/21 06:52*	*07/23/21 11:43*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*40 - 145*	*07/23/21 06:52*	*07/23/21 11:43*	*1*

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

Lab Sample ID: LB2 500-610050/1-D
Matrix: Solid
Analysis Batch: 610813

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610742

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:25	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:25	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		07/23/21 06:52	07/23/21 12:25	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:25	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:25	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:25	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		07/23/21 06:52	07/23/21 12:25	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		07/23/21 06:52	07/23/21 12:25	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:25	1
Pyridine	<0.20		0.20	0.20	mg/L		07/23/21 06:52	07/23/21 12:25	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		07/23/21 06:52	07/23/21 12:25	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		07/23/21 06:52	07/23/21 12:25	1

Surrogate	*LB2 %Recovery*	*LB2 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*34 - 110*	*07/23/21 06:52*	*07/23/21 12:25*	*1*
2-Fluorophenol (Surr)	*45*		*27 - 110*	*07/23/21 06:52*	*07/23/21 12:25*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*07/23/21 06:52*	*07/23/21 12:25*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*07/23/21 06:52*	*07/23/21 12:25*	*1*
Terphenyl-d14 (Surr)	*110*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:25*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*40 - 145*	*07/23/21 06:52*	*07/23/21 12:25*	*1*

Lab Sample ID: 500-202093-1 MS
Matrix: Solid
Analysis Batch: 610828

Client Sample ID: LST-EAST
Prep Type: TCLP
Prep Batch: 610742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<0.020		1.60	1.05		mg/L		66	23 - 110
2,4-Dinitrotoluene	<0.010		1.60	1.69		mg/L		106	63 - 129
Hexachlorobenzene	<0.0050		1.60	1.58		mg/L		98	61 - 126
Hexachlorobutadiene	<0.050		1.60	1.02		mg/L		64	20 - 100
Hexachloroethane	<0.050		1.60	0.931		mg/L		58	20 - 100
2-Methylphenol	<0.020		1.60	1.36		mg/L		85	53 - 115
3 & 4 Methylphenol	<0.020		1.60	1.15		mg/L		72	50 - 116
Nitrobenzene	<0.010		1.60	1.16		mg/L		72	54 - 121
Pentachlorophenol	<0.20		3.20	3.27		mg/L		102	42 - 148
Pyridine	<0.20		3.20	1.47		mg/L		46	15 - 110
2,4,5-Trichlorophenol	<0.10		1.60	1.65		mg/L		103	63 - 124
2,4,6-Trichlorophenol	<0.050		1.60	1.55		mg/L		97	62 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*101*		*34 - 110*
2-Fluorophenol (Surr)	*48*		*27 - 110*
Nitrobenzene-d5 (Surr)	*67*		*36 - 120*
Phenol-d5 (Surr)	*36*		*20 - 100*
Terphenyl-d14 (Surr)	*112*		*40 - 145*
2,4,6-Tribromophenol (Surr)	*111*		*40 - 145*

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

Lab Sample ID: MB 500-610096/1-A
Matrix: Solid
Analysis Batch: 610222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		07/20/21 06:29	07/20/21 15:36	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		07/20/21 06:29	07/20/21 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*49 - 129*	*07/20/21 06:29*	*07/20/21 15:36*	*1*
DCB Decachlorobiphenyl	*112*		*37 - 121*	*07/20/21 06:29*	*07/20/21 15:36*	*1*

Lab Sample ID: LCS 500-610096/3-A
Matrix: Solid
Analysis Batch: 610222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.167	0.168		mg/Kg		101	57 - 120		
PCB-1260			0.167	0.185		mg/Kg		111	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*49 - 129*
DCB Decachlorobiphenyl	*114*		*37 - 121*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-506368/1-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.028		0.20	0.028	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoropentanoic acid (PFPeA)	<0.077		0.20	0.077	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorohexanoic acid (PFHxA)	<0.042		0.20	0.042	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroheptanoic acid (PFHpA)	<0.029		0.20	0.029	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanoic acid (PFOA)	<0.086		0.20	0.086	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorononanoic acid (PFNA)	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorodecanoic acid (PFDA)	<0.022		0.20	0.022	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroundecanoic acid (PFUnA)	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorododecanoic acid (PFDoA)	<0.067		0.20	0.067	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorotridecanoic acid (PFTrDA)	<0.051		0.20	0.051	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.20	0.054	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.020		0.20	0.020	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.20	0.031	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.035		0.20	0.035	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.50	0.20	ug/Kg		07/13/21 19:40	07/17/21 09:49	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-506368/1-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	<0.020		0.20	0.020	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.039		0.20	0.039	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.20	0.060	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
Perfluorooctanesulfonamide (FOSA)	<0.082		0.20	0.082	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSA	<0.024		0.20	0.024	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSA	<0.041		0.20	0.041	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSAA	<0.39		2.0	0.39	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSAA	<0.37		2.0	0.37	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NMeFOSE	<0.071		0.20	0.071	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
NEtFOSE	<0.036		0.20	0.036	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
4:2 FTS	<0.37		2.0	0.37	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
6:2 FTS	<0.15		2.0	0.15	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
8:2 FTS	<0.25		2.0	0.25	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.018		0.20	0.018	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
HFPO-DA (GenX)	<0.11		0.25	0.11	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
9Cl-PF3ONS	<0.027		0.20	0.027	ug/Kg		07/13/21 19:40	07/17/21 09:49	1
11Cl-PF3OUdS	<0.022		0.20	0.022	ug/Kg		07/13/21 19:40	07/17/21 09:49	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C5 PFPeA	*74*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFHxA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFHpA	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFOA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C5 PFNA	*78*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFDA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFUnA	*74*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFDoA	*65*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 PFTeDA	*64*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C3 PFBS	*85*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
18O2 PFHxS	*80*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C4 PFOS	*82*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C8 FOSA	*84*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d-N-MeFOSA-M	*77*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d-N-EtFOSA-M	*75*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d7-N-MeFOSE-M	*48*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
d9-N-EtFOSE-M	*52*		*10 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-4:2 FTS	*72*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-6:2 FTS	*78*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
M2-8:2 FTS	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C3 HFPO-DA	*71*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*
13C2 10:2 FTS	*79*		*25 - 150*	*07/13/21 19:40*	*07/17/21 09:49*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-506368/2-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.19		ug/Kg		110	60 - 135
Perfluoropentanoic acid (PFPeA)	2.00	2.15		ug/Kg		108	60 - 135
Perfluorohexanoic acid (PFHxA)	2.00	2.25		ug/Kg		113	60 - 135
Perfluoroheptanoic acid (PFHpA)	2.00	2.31		ug/Kg		115	60 - 135
Perfluorooctanoic acid (PFOA)	2.00	2.28		ug/Kg		114	60 - 135
Perfluorononanoic acid (PFNA)	2.00	2.18		ug/Kg		109	60 - 135
Perfluorodecanoic acid (PFDA)	2.00	2.06		ug/Kg		103	60 - 135
Perfluoroundecanoic acid (PFUnA)	2.00	2.30		ug/Kg		115	60 - 135
Perfluorododecanoic acid (PFDoA)	2.00	1.95		ug/Kg		98	60 - 135
Perfluorotridecanoic acid (PFTrDA)	2.00	1.81		ug/Kg		91	60 - 135
Perfluorotetradecanoic acid (PFTeA)	2.00	2.06		ug/Kg		103	60 - 135
Perfluorobutanesulfonic acid (PFBS)	1.77	1.74		ug/Kg		99	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.71		ug/Kg		91	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.97		ug/Kg		108	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.05		ug/Kg		108	60 - 135
Perfluorooctanesulfonic acid (PFOS)	1.86	2.03		ug/Kg		110	60 - 135
Perfluorononanesulfonic acid (PFNS)	1.92	1.93		ug/Kg		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	1.93	1.92		ug/Kg		100	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.86		ug/Kg		96	60 - 135
Perfluorooctanesulfonamide (FOSA)	2.00	2.06		ug/Kg		103	60 - 135
NEtFOSA	2.00	2.14		ug/Kg		107	60 - 135
NMeFOSA	2.00	2.16		ug/Kg		108	60 - 135
NMeFOSAA	2.00	2.17		ug/Kg		109	60 - 135
NEtFOSAA	2.00	2.32		ug/Kg		116	60 - 135
NMeFOSE	2.00	2.34		ug/Kg		117	60 - 135
NEtFOSE	2.00	2.19		ug/Kg		110	60 - 135
4:2 FTS	1.87	1.75	J	ug/Kg		94	60 - 135
6:2 FTS	1.90	1.96	J	ug/Kg		103	60 - 135
8:2 FTS	1.92	2.15		ug/Kg		112	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	1.94		ug/Kg		103	60 - 135
HFPO-DA (GenX)	2.00	2.18		ug/Kg		109	60 - 135
9Cl-PF3ONS	1.86	1.88		ug/Kg		101	60 - 135
11Cl-PF3OUdS	1.88	1.55		ug/Kg		82	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*76*		*25 - 150*
13C5 PFPeA	*79*		*25 - 150*
13C2 PFHxA	*77*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-506368/2-A
Matrix: Solid
Analysis Batch: 507469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506368

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	79		25 - 150
13C4 PFOA	79		25 - 150
13C5 PFNA	82		25 - 150
13C2 PFDA	85		25 - 150
13C2 PFUnA	81		25 - 150
13C2 PFDoA	81		25 - 150
13C2 PFTeDA	72		25 - 150
13C3 PFBS	89		25 - 150
18O2 PFHxS	78		25 - 150
13C4 PFOS	85		25 - 150
13C8 FOSA	86		10 - 150
d3-NMeFOSAA	78		25 - 150
d5-NEtFOSAA	80		25 - 150
d-N-MeFOSA-M	83		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	57		10 - 150
d9-N-EtFOSE-M	58		10 - 150
M2-4:2 FTS	76		25 - 150
M2-6:2 FTS	80		25 - 150
M2-8:2 FTS	79		25 - 150
13C3 HFPO-DA	77		25 - 150
13C2 10:2 FTS	83		25 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-610293/15-A
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0944		mg/L		94	80 - 120
Barium	0.500	0.489	J	mg/L		98	80 - 120
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Lead	0.100	0.0929		mg/L		93	80 - 120
Selenium	0.100	0.0840		mg/L		84	80 - 120
Silver	0.0500	0.0477		mg/L		95	80 - 120
Copper	0.250	0.245		mg/L		98	80 - 120
Nickel	0.500	0.474		mg/L		95	80 - 120
Zinc	0.500	0.475		mg/L		95	80 - 120

Lab Sample ID: LCS 500-610293/2-A
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0956		mg/L		96	80 - 120
Barium	0.500	0.470	J	mg/L		94	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-610293/2-A
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.189		mg/L		94	80 - 120
Lead	0.100	0.0945		mg/L		94	80 - 120
Selenium	0.100	0.0907		mg/L		91	80 - 120
Silver	0.0500	0.0521		mg/L		104	80 - 120
Copper	0.250	0.256		mg/L		102	80 - 120
Nickel	0.500	0.476		mg/L		95	80 - 120
Zinc	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: LB 500-610048/1-B
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610293

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/20/21 18:03	07/21/21 15:43	1
Barium	<0.050		0.50	0.050	mg/L		07/20/21 18:03	07/21/21 15:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/20/21 18:03	07/21/21 15:43	1
Chromium	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 15:43	1
Lead	<0.0075		0.050	0.0075	mg/L		07/20/21 18:03	07/21/21 15:43	1
Selenium	<0.020		0.050	0.020	mg/L		07/20/21 18:03	07/21/21 15:43	1
Silver	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 15:43	1
Copper	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 15:43	1
Nickel	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 15:43	1
Zinc	<0.020		0.10	0.020	mg/L		07/20/21 18:03	07/21/21 15:43	1

Lab Sample ID: LB2 500-610050/1-B
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610293

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/20/21 18:03	07/21/21 16:48	1
Barium	<0.050		0.50	0.050	mg/L		07/20/21 18:03	07/21/21 16:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/20/21 18:03	07/21/21 16:48	1
Chromium	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:48	1
Lead	<0.0075		0.050	0.0075	mg/L		07/20/21 18:03	07/21/21 16:48	1
Selenium	<0.020		0.050	0.020	mg/L		07/20/21 18:03	07/21/21 16:48	1
Silver	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:48	1
Copper	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:48	1
Nickel	<0.010		0.025	0.010	mg/L		07/20/21 18:03	07/21/21 16:48	1
Zinc	<0.020		0.10	0.020	mg/L		07/20/21 18:03	07/21/21 16:48	1

Lab Sample ID: 500-202093-3 MS
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: WST
Prep Type: TCLP
Prep Batch: 610293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.010		0.100	0.0944		mg/L		94	75 - 125
Barium	0.62		0.500	1.06		mg/L		87	75 - 125
Cadmium	0.034		0.0500	0.0811		mg/L		94	75 - 125
Chromium	<0.010		0.200	0.183		mg/L		91	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-202093-3 MS
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: WST
Prep Type: TCLP
Prep Batch: 610293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	<0.0075		0.100	0.0992		mg/L		99	75 - 125
Selenium	<0.020		0.100	0.0837		mg/L		84	75 - 125
Copper	0.021	J	0.250	0.264		mg/L		97	75 - 125
Nickel	0.11		0.500	0.562		mg/L		90	75 - 125
Zinc	4.5		0.500	4.98	4	mg/L		91	75 - 125

Lab Sample ID: 500-202093-3 MS
Matrix: Solid
Analysis Batch: 610790

Client Sample ID: WST
Prep Type: TCLP
Prep Batch: 610293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.050	F1	0.0500	<0.050	F1	mg/L		0	75 - 125

Lab Sample ID: 500-202093-3 DU
Matrix: Solid
Analysis Batch: 610607

Client Sample ID: WST
Prep Type: TCLP
Prep Batch: 610293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.62		0.625		mg/L		0.1	20
Cadmium	0.034		0.0336		mg/L		0.8	20
Chromium	<0.010		0.0103	J	mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Copper	0.021	J	0.0204	J	mg/L		2	20
Nickel	0.11		0.109		mg/L		3	20
Zinc	4.5		4.52		mg/L		0	20

Lab Sample ID: 500-202093-3 DU
Matrix: Solid
Analysis Batch: 610790

Client Sample ID: WST
Prep Type: TCLP
Prep Batch: 610293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	<0.050	F1	<0.050		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-610417/12-A
Matrix: Solid
Analysis Batch: 610671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 07:46	1

Lab Sample ID: MB 500-610419/12-A
Matrix: Solid
Analysis Batch: 610671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 08:56	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-610419/14-A
Matrix: Solid
Analysis Batch: 610671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00199		mg/L		100	80 - 120

Lab Sample ID: LB2 500-610050/1-C
Matrix: Solid
Analysis Batch: 610671

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610417

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 08:50	1

Lab Sample ID: LB 500-610048/1-F
Matrix: Solid
Analysis Batch: 610671

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 610419

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:41	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-610509/1-A
Matrix: Solid
Analysis Batch: 610661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		07/21/21 20:05	07/22/21 10:31	1

Lab Sample ID: HLCS 500-610509/2-A
Matrix: Solid
Analysis Batch: 610661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610509

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.1		mg/Kg		101	90 - 110

Lab Sample ID: LCS 500-610509/3-A
Matrix: Solid
Analysis Batch: 610661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.28		mg/Kg		95	85 - 115

Lab Sample ID: LLCS 500-610509/4-A
Matrix: Solid
Analysis Batch: 610661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610509

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.26		mg/Kg		105	75 - 125

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-608933/1-A
Matrix: Solid
Analysis Batch: 609148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		07/13/21 11:21	07/13/21 14:53	1

Lab Sample ID: LCS 500-608933/2-A
Matrix: Solid
Analysis Batch: 609148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	192	173		mg/Kg		90	80 - 120

Method: 9251 - Chlorine, Total

Lab Sample ID: MB 680-677670/1-A
Matrix: Solid
Analysis Batch: 677709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 677670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Chlorine	<200		200	200	mg/Kg		07/22/21 13:22	07/22/21 17:39	1

Lab Sample ID: LCS 680-677670/2-A
Matrix: Solid
Analysis Batch: 677709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 677670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Chlorine	9900	8070		mg/Kg		82	70 - 130

Method: SM 2710F - Specific Gravity, Density

Lab Sample ID: 500-202093-1 DU
Matrix: Solid
Analysis Batch: 610474

Client Sample ID: LST-EAST
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	1.1500		1.1298		NONE		2	

Lab Sample ID: 500-202093-3 DU
Matrix: Solid
Analysis Batch: 610701

Client Sample ID: WST
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	1.5159		1.4817		NONE		2	

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Client Sample ID: LST-EAST

Lab Sample ID: 500-202093-1

Date Collected: 07/08/21 09:15

Matrix: Solid

Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			610109	07/19/21 15:40	EA	TAL CHI
TCLP	Analysis	8260B		20	610372	07/21/21 11:44	JDD	TAL CHI
TCLP	Leach	1311			610050	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3510C			610742	07/23/21 06:52	SMD	TAL CHI
TCLP	Analysis	8270D		1	610828	07/23/21 13:11	EF	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		1	610222	07/20/21 18:10	JBJ	TAL CHI
TCLP	Leach	1311			610050	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		1	610902	07/23/21 11:48	JJB	TAL CHI
TCLP	Leach	1311			610050	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		1	610607	07/21/21 16:55	EEN	TAL CHI
TCLP	Leach	1311			610050	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	7470A			610417	07/21/21 10:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	610671	07/22/21 08:54	MJG	TAL CHI
Total/NA	Analysis	1010A		1	610669		MS	TAL CHI
						(Start) 07/21/21 10:17		
						(End) 07/21/21 11:41		
Total/NA	Prep	9010C			610509	07/21/21 20:05	PSP	TAL CHI
Total/NA	Analysis	9012B		1	610661	07/22/21 10:37	PSP	TAL CHI
Total/NA	Prep	9030B			608933	07/13/21 12:24	TMS	TAL CHI
Total/NA	Analysis	9034		1	609148	07/13/21 15:14	TMS	TAL CHI
Total/NA	Analysis	9045D		1	609430	07/14/21 19:40	LWN	TAL CHI
Total/NA	Analysis	9095B		1	608938		TMS	TAL CHI
						(Start) 07/12/21 14:40		
						(End) 07/12/21 14:45		
Total/NA	Prep	5050			677670	07/22/21 13:22	SM	TAL SAV
Total/NA	Analysis	9251		1	677709	07/22/21 17:39	SM	TAL SAV
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	610474		JSB	TAL CHI
						(Start) 07/21/21 13:30		
						(End) 07/21/21 13:36		

Client Sample ID: LST-EAST

Lab Sample ID: 500-202093-1

Date Collected: 07/08/21 09:15

Matrix: Solid

Date Received: 07/09/21 09:30

Percent Solids: 16.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:44	K1S	TAL SAC

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Client Sample ID: LST-WEST
Lab Sample ID: 500-202093-2
Date Collected: 07/08/21 09:45
Matrix: Solid
Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			610109	07/19/21 15:40	EA	TAL CHI
TCLP	Analysis	8260B		20	610372	07/21/21 12:12	JDD	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3510C			610742	07/23/21 06:52	SMD	TAL CHI
TCLP	Analysis	8270D		1	610828	07/23/21 12:47	EF	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		10	610307	07/21/21 07:20	SS	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		1	610790	07/23/21 02:46	EEN	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		1	610607	07/21/21 16:04	EEN	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	7470A			610419	07/21/21 10:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	610671	07/22/21 09:48	MJG	TAL CHI
Total/NA	Analysis	1010A		1	610669		MS	TAL CHI
						(Start) 07/21/21 11:41		
						(End) 07/21/21 13:06		
Total/NA	Prep	9010C			610509	07/21/21 20:05	PSP	TAL CHI
Total/NA	Analysis	9012B		1	610661	07/22/21 10:39	PSP	TAL CHI
Total/NA	Prep	9030B			608933	07/13/21 12:33	TMS	TAL CHI
Total/NA	Analysis	9034		1	609148	07/13/21 15:17	TMS	TAL CHI
Total/NA	Analysis	9045D		1	609430	07/14/21 19:43	LWN	TAL CHI
Total/NA	Analysis	9095B		1	608938		TMS	TAL CHI
						(Start) 07/12/21 14:42		
						(End) 07/12/21 14:47		
Total/NA	Prep	5050			677670	07/22/21 13:22	SM	TAL SAV
Total/NA	Analysis	9251		1	677709	07/22/21 17:39	SM	TAL SAV
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	610474		JSB	TAL CHI
						(Start) 07/21/21 13:41		
						(End) 07/21/21 13:47		

Client Sample ID: LST-WEST
Lab Sample ID: 500-202093-2
Date Collected: 07/08/21 09:45
Matrix: Solid
Date Received: 07/09/21 09:30
Percent Solids: 53.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 04:53	K1S	TAL SAC

Client Sample ID: WST

Lab Sample ID: 500-202093-3

Date Collected: 07/08/21 10:00

Matrix: Solid

Date Received: 07/09/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			610109	07/19/21 15:40	EA	TAL CHI
TCLP	Analysis	8260B		20	610372	07/21/21 12:40	JDD	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3510C			610742	07/23/21 06:52	SMD	TAL CHI
TCLP	Analysis	8270D		1	610828	07/23/21 12:24	EF	TAL CHI
Total/NA	Prep	3541			610096	07/20/21 06:29	CLL	TAL CHI
Total/NA	Analysis	8082A		5	610307	07/21/21 07:36	SS	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		5	610790	07/23/21 02:50	EEN	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	3010A			610293	07/20/21 18:03	LMN	TAL CHI
TCLP	Analysis	6010B		1	610607	07/21/21 16:07	EEN	TAL CHI
TCLP	Leach	1311			610048	07/19/21 14:10	EA	TAL CHI
TCLP	Prep	7470A			610419	07/21/21 10:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	610671	07/22/21 09:50	MJG	TAL CHI
Total/NA	Analysis	1010A		1	610669		MS	TAL CHI
						(Start) 07/21/21 13:06		
						(End) 07/21/21 14:30		
Total/NA	Prep	9010C			610509	07/21/21 20:05	PSP	TAL CHI
Total/NA	Analysis	9012B		1	610661	07/22/21 10:40	PSP	TAL CHI
Total/NA	Prep	9030B			608933	07/13/21 12:42	TMS	TAL CHI
Total/NA	Analysis	9034		1	609148	07/13/21 15:20	TMS	TAL CHI
Total/NA	Analysis	9045D		1	609430	07/14/21 19:45	LWN	TAL CHI
Total/NA	Analysis	9095B		1	608938		TMS	TAL CHI
						(Start) 07/12/21 14:43		
						(End) 07/12/21 14:48		
Total/NA	Prep	5050			677670	07/22/21 13:22	SM	TAL SAV
Total/NA	Analysis	9251		1	677709	07/22/21 17:39	SM	TAL SAV
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	610701		JSB	TAL CHI
						(Start) 07/22/21 14:25		
						(End) 07/22/21 14:34		

Client Sample ID: WST

Lab Sample ID: 500-202093-3

Date Collected: 07/08/21 10:00

Matrix: Solid

Date Received: 07/09/21 09:30

Percent Solids: 57.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			506368	07/13/21 19:40	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	506671	07/15/21 05:03	K1S	TAL SAC

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 2710F		Solid	Specific Gravity

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-22
Alaska (UST)	State	17-016	09-22-22
ANAB	Dept. of Defense ELAP	L2463	09-22-22
ANAB	ISO/IEC 17025	L2463.01	09-22-22
Arkansas DEQ	State	19-015-0	02-01-22
California	State	2939	06-30-21 *
Connecticut	State	PH-0161	03-31-23
Florida	NELAP	E87052	06-30-22
Georgia	State	E87052	06-30-22
Georgia (DW)	State	803	06-30-22
Guam	State	19-007R	04-17-22
Hawaii	State	<cert No.>	06-30-22
Illinois	NELAP	200022	11-30-21
Indiana	State	C-GA-02	06-30-22
Iowa	State	353	06-30-21 *
Kentucky (UST)	State	NA	06-30-22
Louisiana	NELAP	02011	06-30-22
Louisiana (DW)	State	LA009	12-31-21
Maine	State	GA00006	09-25-22
Maryland	State	250	12-31-21
Massachusetts	State	M-GA006	06-30-22
Michigan	State	9925	03-05-22
Mississippi	State	<cert No.>	06-30-22
Nebraska	State	NE-OS-7-04	06-30-22
New Jersey	NELAP	GA769	06-30-22
New Mexico	State	GA00006	06-30-22
New York	NELAP	10842	04-01-22
North Carolina (DW)	State	13701	07-31-21
North Carolina (WW/SW)	State	269	12-31-21
Pennsylvania	NELAP	68-00474	06-30-22
Puerto Rico	State	GA00006	01-01-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

Laboratory: Eurofins TestAmerica, Savannah (Continued)

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-21 *
Tennessee	State	02961	06-30-22
Texas	NELAP	T1047004185-19-14	11-30-21
Texas	TCEQ Water Supply	T104704185	06-30-22
US Fish & Wildlife	US Federal Programs	LE058448-0	08-01-21
USDA	US Federal Programs	P330-18-00313	10-29-21
Virginia	NELAP	10509	06-29-22
Washington	State	C805	06-10-22
West Virginia DEP	State	094	07-31-21
Wisconsin	State	999819810	08-31-21
Wyoming	State	8TMS-L	06-30-21 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: DUNCAN GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-92904-41388 2
Client Contact: Duncan Glasford	Phone: 262 573 6315	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #: 500-202093
Address: 234 W Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days):			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: DGLASFORD@ramboll.com/SPETROFSKE@RAMBOLL.COM	WO #: 1690019558			
Project Name: Former Mirro 20 Chilton	Project #: 5001913			
Site:	SSOW#:			

Analysis Requ

500-202093 COC

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 Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Protocol B	TCLP VOCs	PFAS	Total Number of containers	Special Instructions/Note
1	LST-EAST	7-8	915	C	Solid			X	X	X		
2	LST-WEST	↓	945	C	Solid			X	X	X		
3	WST	↓	1000	C	Solid			X	X	X		
					Solid							
					Solid							
					Solid							
					Solid							
					Solid							
					Solid							
					Water							
					Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
1		7-8-21 1500	RAMBOLL		7-8-21 1500	
2		7-8-21 1700	TA	Stephanie Hernandez	7/9/21 0930	ETA-CHI
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks: 2.1


ORIGIN ID:RRLA (262) 202-5955
SHIPPING
TESTAMERICA
4125 N 124TH ST

BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 08JUL21
ACTWGT: 55.95 LB
CAD: 525155/CAFE3406

BILL RECIPIENT

TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

FedEx
Express

2 of 2
MPS# 0263 7125 4944 8390
Mstr# 7125 4944 8389

FRI - 09 JUL 10:30A
PRIORITY OVERNIGHT

0201

79 JOTA

60484
IL-US ORD

****

500-202093 Wayb

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-150273.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-202093-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/22/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Mirro 20 - Chilton 1690019558	Project #: 50019131			
Site:	SSOW#:			

Analysis Requested

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 Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI/Shake_Bath_28D PFAS, Standard List (33 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LST-EAST (500-202093-1)	7/8/21	09:15 Central		Solid			X	1	
LST-WEST (500-202093-2)	7/8/21	09:45 Central		Solid			X	1	
WST (500-202093-3)	7/8/21	10:00 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7-12-21 1700			7/13/21 9:45	GTSTAK
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.: 151191	Cooler Temperature(s) °C and Other Remarks: 1.5c

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-150278.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-202093-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 7/22/2021			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Mirro 20 - Chilton 1690019558	Project #: 50019131			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9251_Total_Cl/5050 Chlorine, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LST-EAST (500-202093-1)	7/8/21	09:15 Central		Solid			X	1	
LST-WEST (500-202093-2)	7/8/21	09:45 Central		Solid			X	1	
WST (500-202093-3)	7/8/21	10:00 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 7/12/21 1700	Company: TA	Received by:	Date/Time: 7/13 1010	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-202093-1

Login Number: 202093
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

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	2.1
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: 500-202093-1

Login Number: 202093
List Number: 3
Creator: Cahill, Nicholas P

List Source: Eurofins TestAmerica, Sacramento
List Creation: 07/13/21 03:56 PM

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	1511191
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: 500-202093-1

Login Number: 202093
List Number: 2
Creator: Hartley, Tyler

List Source: Eurofins TestAmerica, Savannah
List Creation: 07/13/21 12:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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.	False	

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Sacramento Sample Receiving Notes

500-202093 Field Sheet

Job: _____

Tracking # : 1893445253?2

SO (PO) FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-04 Corr. Factor: (+ / -) — °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal: 1511191

Cooler ID: —

Temp Observed: 1.5 °C Corrected: 1.5 °C

From: Temp Blank ☐ Sample ☒

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐
Frozen samples show signs of thaw?	☐	☐	☒

Initials: US Date: 7/13/21

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
Sample containers have legible labels?	☒	☐	☐
Sample custody seal?	☐	☐	☒
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Samples w/o discrepancies?	☐	☒	☐
Zero headspace?*	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: US Date: 7.13.21

Notes: Samples show signs of compromise. Water in Samples. Job # 500-202093 Sample # ID - LST-West #2A - LST-East # 1A WST # 3A US 7/13/21

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☒	☐	☐
Samples received within hold time?	☒	☐	☐
NCM Filed?	☒	☐	☐
Log Release checked in TALS?	☐	☐	☐

Initials: DB Date: 7/13/21


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
ORIGIN ID:JOTA (708) 534-5200
SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US
SHIP DATE: 12JUL21
ACTWGT: 42.00 LB MAN
CAD: 0332264/CAFE3502
BILL SENDER
SAMPLE RECEIPT
TESTAMERICA
880 RIVERSIDE PKWY
WEST SACRAMENTO CA 95605
REF:
DEPT:
FedEx
Express
TUE - 13 JUL 10:30A
PRIORITY OVERNIGHT
1893 4452 5322
NH BLUA
95605
CA-US SMF
eurofins
Environment Testing
TestAmerica
1511191
Custody Seal
SIGNATURE
DATE

Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro 20 - Chilton 1690019558

Job ID: 500-202093-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-202093-1	LST-EAST	39	51	47	49	47	45	47	43
500-202093-2	LST-WEST	61	63	64	66	60	62	64	55
500-202093-3	WST	19 *5-	47	48	50	48	47	44	40
LCS 320-506368/2-A	Lab Control Sample	76	79	77	79	79	82	85	81
MB 320-506368/1-A	Method Blank	75	74	73	79	73	78	75	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-202093-1	LST-EAST	43	33	54	49	51	41	33	34
500-202093-2	LST-WEST	54	39	68	62	64	59	51	52
500-202093-3	WST	35	34	51	45	49	39	35	30
LCS 320-506368/2-A	Lab Control Sample	81	72	89	78	85	86	78	80
MB 320-506368/1-A	Method Blank	65	64	85	80	82	84	73	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-202093-1	LST-EAST	40	37	33	31	89	107	95	52
500-202093-2	LST-WEST	51	45	39	36	132	132	132	63
500-202093-3	WST	35	31	30	30	110	140	111	49
LCS 320-506368/2-A	Lab Control Sample	83	81	57	58	76	80	79	77
MB 320-506368/1-A	Method Blank	77	75	48	52	72	78	79	71

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-202093-1	LST-EAST	87
500-202093-2	LST-WEST	104
500-202093-3	WST	72
LCS 320-506368/2-A	Lab Control Sample	83
MB 320-506368/1-A	Method Blank	79

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-202093-1
Project/Site: Former Mirro 20 - Chilton 1690019558

NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 20, 2021

Paul Lindquist
Ramboll US Consulting, Inc.
234 West Florida St.
5th floor
Milwaukee, WI 53204

RE: Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Dear Paul Lindquist:

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10569630001	**EAST SUMP**	Air	07/08/21 08:42	07/13/21 10:00
10569630002	**EAST SUMP CERT#2767**	Air		07/13/21 10:00
10569630003	**WEST SUMP**	Air	07/08/21 08:45	07/13/21 10:00
10569630004	**WEST SUMP CERT#0842**	Air		07/13/21 10:00
10569630005	**UNUSED PACE2749**	Air		07/13/21 10:00
10569630006	**UNUSED PACE3609**	Air		07/13/21 10:00

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Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10569630001	**EAST SUMP**	TO-15	MJL	18
10569630002	**EAST SUMP CERT#2767**	TO-15	AFV	18
10569630003	**WEST SUMP**	TO-15	MJL	18
10569630004	**WEST SUMP CERT#0842**	TO-15	AFV	18

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Method: **TO-15**
Description: TO15 MSV AIR
Client: Ramboll Environ- WI AIR
Date: July 20, 2021

General Information:
2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Method: **TO-15**
Description: Individual Can Certification
Client: Ramboll Environ- WI AIR
Date: July 20, 2021

General Information:
2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Sample: EAST SUMP **Lab ID: 10569630001** Collected: 07/08/21 08:42 Received: 07/13/21 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Benzene	**0.93**	ug/m3	0.48	0.17	1.49		07/17/21 15:30	71-43-2	
1,2-Dichloroethane	**0.65J**	ug/m3	1.2	0.29	1.49		07/17/21 15:30	107-06-2	
1,1-Dichloroethene	**62.1**	ug/m3	1.2	0.21	1.49		07/17/21 15:30	75-35-4	
cis-1,2-Dichloroethene	**7760**	ug/m3	144	34.9	178.8		07/20/21 13:07	156-59-2	
trans-1,2-Dichloroethene	**287**	ug/m3	144	30.0	178.8		07/20/21 13:07	156-60-5	
Ethylbenzene	**<0.46**	ug/m3	1.3	0.46	1.49		07/17/21 15:30	100-41-4	
Methyl-tert-butyl ether	**<0.19**	ug/m3	5.5	0.19	1.49		07/17/21 15:30	1634-04-4	
Naphthalene	**4.4**	ug/m3	4.0	3.2	1.49		07/17/21 15:30	91-20-3	
Tetrachloroethene	**3150**	ug/m3	123	52.2	178.8		07/20/21 13:07	127-18-4	
Toluene	**2.5**	ug/m3	1.1	0.36	1.49		07/17/21 15:30	108-88-3	
1,1,1-Trichloroethane	**17.3**	ug/m3	1.7	0.28	1.49		07/17/21 15:30	71-55-6	
Trichloroethene	**1470**	ug/m3	97.6	35.0	178.8		07/20/21 13:07	79-01-6	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.5	0.53	1.49		07/17/21 15:30	95-63-6	
1,3,5-Trimethylbenzene	**0.63J**	ug/m3	1.5	0.43	1.49		07/17/21 15:30	108-67-8	
Vinyl chloride	**385**	ug/m3	46.5	15.5	178.8		07/20/21 13:07	75-01-4	
Xylene (Total)	**3.2J**	ug/m3	3.9	0.96	1.49		07/17/21 15:30	1330-20-7	
m&p-Xylene	**2.6J**	ug/m3	2.6	0.96	1.49		07/17/21 15:30	179601-23-1	
o-Xylene	**0.61J**	ug/m3	1.3	0.40	1.49		07/17/21 15:30	95-47-6	

Sample: EAST SUMP CERT#2767 **Lab ID: 10569630002** Collected: Received: 07/13/21 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Benzene	**<0.057**	ug/m3	0.16	0.057	0.5		06/24/21 00:31	71-43-2	
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		06/24/21 00:31	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		06/24/21 00:31	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		06/24/21 00:31	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		06/24/21 00:31	156-60-5	
Ethylbenzene	**<0.15**	ug/m3	0.44	0.15	0.5		06/24/21 00:31	100-41-4	
Methyl-tert-butyl ether	**<0.063**	ug/m3	1.8	0.063	0.5		06/24/21 00:31	1634-04-4	
Naphthalene	**<1.1**	ug/m3	1.3	1.1	0.5		06/24/21 00:31	91-20-3	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		06/24/21 00:31	127-18-4	
Toluene	**<0.12**	ug/m3	0.38	0.12	0.5		06/24/21 00:31	108-88-3	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		06/24/21 00:31	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		06/24/21 00:31	79-01-6	
1,2,4-Trimethylbenzene	**<0.18**	ug/m3	0.50	0.18	0.5		06/24/21 00:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.14**	ug/m3	0.50	0.14	0.5		06/24/21 00:31	108-67-8	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		06/24/21 00:31	75-01-4	
Xylene (Total)	**<0.32**	ug/m3	1.3	0.32	0.5		06/24/21 00:31	1330-20-7	
m&p-Xylene	**<0.32**	ug/m3	0.88	0.32	0.5		06/24/21 00:31	179601-23-1	
o-Xylene	**<0.14**	ug/m3	0.44	0.14	0.5		06/24/21 00:31	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Sample: WEST SUMP **Lab ID: 10569630003** Collected: 07/08/21 08:45 Received: 07/13/21 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Benzene	**<0.18**	ug/m3	0.51	0.18	1.58		07/17/21 16:07	71-43-2	
1,2-Dichloroethane	**<0.31**	ug/m3	1.3	0.31	1.58		07/17/21 16:07	107-06-2	
1,1-Dichloroethene	**<0.22**	ug/m3	1.3	0.22	1.58		07/17/21 16:07	75-35-4	
cis-1,2-Dichloroethene	**0.98J**	ug/m3	1.3	0.31	1.58		07/20/21 12:43	156-59-2	
trans-1,2-Dichloroethene	**<0.27**	ug/m3	1.3	0.27	1.58		07/17/21 16:07	156-60-5	
Ethylbenzene	**<0.49**	ug/m3	1.4	0.49	1.58		07/17/21 16:07	100-41-4	
Methyl-tert-butyl ether	**<0.20**	ug/m3	5.8	0.20	1.58		07/17/21 16:07	1634-04-4	
Naphthalene	**4.6**	ug/m3	4.2	3.4	1.58		07/17/21 16:07	91-20-3	
Tetrachloroethene	**1.5**	ug/m3	1.1	0.46	1.58		07/20/21 12:43	127-18-4	
Toluene	**2.2**	ug/m3	1.2	0.39	1.58		07/17/21 16:07	108-88-3	
1,1,1-Trichloroethane	**6.1**	ug/m3	1.8	0.29	1.58		07/17/21 16:07	71-55-6	
Trichloroethene	**0.43J**	ug/m3	0.86	0.31	1.58		07/20/21 12:43	79-01-6	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.6	0.56	1.58		07/17/21 16:07	95-63-6	
1,3,5-Trimethylbenzene	**0.71J**	ug/m3	1.6	0.46	1.58		07/17/21 16:07	108-67-8	
Vinyl chloride	**<0.14**	ug/m3	0.41	0.14	1.58		07/17/21 16:07	75-01-4	
Xylene (Total)	**3.6J**	ug/m3	4.2	1.0	1.58		07/17/21 16:07	1330-20-7	
m&p-Xylene	**2.9**	ug/m3	2.8	1.0	1.58		07/17/21 16:07	179601-23-1	
o-Xylene	**0.74J**	ug/m3	1.4	0.43	1.58		07/17/21 16:07	95-47-6	

Sample: WEST SUMP CERT#0842 **Lab ID: 10569630004** Collected: Received: 07/13/21 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Benzene	**<0.057**	ug/m3	0.16	0.057	0.5		06/23/21 17:48	71-43-2	
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		06/23/21 17:48	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		06/23/21 17:48	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		06/23/21 17:48	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		06/23/21 17:48	156-60-5	
Ethylbenzene	**<0.15**	ug/m3	0.44	0.15	0.5		06/23/21 17:48	100-41-4	
Methyl-tert-butyl ether	**<0.063**	ug/m3	1.8	0.063	0.5		06/23/21 17:48	1634-04-4	
Naphthalene	**<1.1**	ug/m3	1.3	1.1	0.5		06/23/21 17:48	91-20-3	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		06/23/21 17:48	127-18-4	
Toluene	**<0.12**	ug/m3	0.38	0.12	0.5		06/23/21 17:48	108-88-3	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		06/23/21 17:48	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		06/23/21 17:48	79-01-6	
1,2,4-Trimethylbenzene	**<0.18**	ug/m3	0.50	0.18	0.5		06/23/21 17:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.14**	ug/m3	0.50	0.14	0.5		06/23/21 17:48	108-67-8	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		06/23/21 17:48	75-01-4	
Xylene (Total)	**<0.32**	ug/m3	1.3	0.32	0.5		06/23/21 17:48	1330-20-7	
m&p-Xylene	**<0.32**	ug/m3	0.88	0.32	0.5		06/23/21 17:48	179601-23-1	
o-Xylene	**<0.14**	ug/m3	0.44	0.14	0.5		06/23/21 17:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

QC Batch: 756859
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10569630001, 10569630003

METHOD BLANK: 4036119 Matrix: Air
Associated Lab Samples: 10569630001, 10569630003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	07/17/21 11:14	
1,1-Dichloroethene	ug/m3	<0.14	0.81	07/17/21 11:14	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	07/17/21 11:14	
1,2-Dichloroethane	ug/m3	<0.19	0.82	07/17/21 11:14	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	07/17/21 11:14	
Benzene	ug/m3	<0.11	0.32	07/17/21 11:14	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	07/17/21 11:14	
Ethylbenzene	ug/m3	<0.31	0.88	07/17/21 11:14	
m&p-Xylene	ug/m3	<0.64	1.8	07/17/21 11:14	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	07/17/21 11:14	
Naphthalene	ug/m3	<2.2	2.7	07/17/21 11:14	
o-Xylene	ug/m3	<0.27	0.88	07/17/21 11:14	
Tetrachloroethene	ug/m3	<0.29	0.69	07/17/21 11:14	
Toluene	ug/m3	<0.24	0.77	07/17/21 11:14	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	07/17/21 11:14	
Trichloroethene	ug/m3	<0.20	0.55	07/17/21 11:14	
Vinyl chloride	ug/m3	<0.087	0.26	07/17/21 11:14	
Xylene (Total)	ug/m3	<0.64	2.6	07/17/21 11:14	

LABORATORY CONTROL SAMPLE: 4036120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	67.8	114	70-130	
1,1-Dichloroethene	ug/m3	43.5	49.8	115	70-130	
1,2,4-Trimethylbenzene	ug/m3	54	63.0	117	70-142	
1,2-Dichloroethane	ug/m3	44.4	46.6	105	70-132	
1,3,5-Trimethylbenzene	ug/m3	53.7	61.5	115	70-143	
Benzene	ug/m3	34.8	37.0	106	70-131	
cis-1,2-Dichloroethene	ug/m3	43.4	45.5	105	70-137	
Ethylbenzene	ug/m3	47.8	55.2	115	70-142	
m&p-Xylene	ug/m3	95.4	109	114	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	42.7	108	70-143	
Naphthalene	ug/m3	65.2	73.1	112	67-132	
o-Xylene	ug/m3	47.6	55.3	116	70-141	
Tetrachloroethene	ug/m3	73.4	79.7	109	70-130	
Toluene	ug/m3	41.6	46.3	111	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	45.3	104	70-130	
Trichloroethene	ug/m3	58.4	62.3	107	70-130	
Vinyl chloride	ug/m3	28	27.8	99	70-137	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

LABORATORY CONTROL SAMPLE: 4036120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/m3	143	164	115	70-130	

SAMPLE DUPLICATE: 4036364

Parameter	Units	10570267027 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<9.4		25	
1,1-Dichloroethene	ug/m3	ND	<7.0		25	
1,2,4-Trimethylbenzene	ug/m3	152	142	7	25	
1,2-Dichloroethane	ug/m3	ND	<9.8		25	
1,3,5-Trimethylbenzene	ug/m3	71.2	71.4	0	25	
Benzene	ug/m3	ND	<5.7		25	
cis-1,2-Dichloroethene	ug/m3	41.9	38.3J		25	
Ethylbenzene	ug/m3	52.6	51.0	3	25	
m&p-Xylene	ug/m3	272	254	7	25	
Methyl-tert-butyl ether	ug/m3	ND	<6.4		25	
Naphthalene	ug/m3	ND	<109		25	
o-Xylene	ug/m3	148	139	6	25	
Tetrachloroethene	ug/m3	36.0	35.3	2	25	
Toluene	ug/m3	ND	<12.3		25	
trans-1,2-Dichloroethene	ug/m3	12500	11300	10	25	
Trichloroethene	ug/m3	590	561	5	25	
Vinyl chloride	ug/m3	ND	<4.4		25	
Xylene (Total)	ug/m3	419	393	6	25	

SAMPLE DUPLICATE: 4036365

Parameter	Units	10570267035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<10.0		25	
1,1-Dichloroethene	ug/m3	ND	<7.5		25	
1,2,4-Trimethylbenzene	ug/m3	ND	20.5J		25	
1,2-Dichloroethane	ug/m3	ND	<10.5		25	
1,3,5-Trimethylbenzene	ug/m3	75.6	71.9	5	25	
Benzene	ug/m3	ND	<6.2		25	
cis-1,2-Dichloroethene	ug/m3	ND	<10.5		25	
Ethylbenzene	ug/m3	170	155	9	25	
m&p-Xylene	ug/m3	160	150	7	25	
Methyl-tert-butyl ether	ug/m3	ND	<6.8		25	
Naphthalene	ug/m3	ND	<117		25	
o-Xylene	ug/m3	439	397	10	25	
Tetrachloroethene	ug/m3	59.6	60.3	1	25	
Toluene	ug/m3	ND	<13.2		25	
trans-1,2-Dichloroethene	ug/m3	11800	11300	4	25	
Trichloroethene	ug/m3	8350	8820	6	25	
Vinyl chloride	ug/m3	ND	<4.7		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

SAMPLE DUPLICATE: 4036365

Parameter	Units	10570267035 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/m3	599	547	9	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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QUALIFIERS

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690019558 FORMER MIRRO 20
Pace Project No.: 10569630

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10569630001	**EAST SUMP**	TO-15	756859		
10569630003	**WEST SUMP**	TO-15	756859		
10569630002	**EAST SUMP CERT#2767**	TO-15	757180		
10569630004	**WEST SUMP CERT#0842**	TO-15	757180		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

50751

Page: 1 of 1

Section A Required Client Information:

Company: RAMBOLL
Address: 234 W FLORIDA ST
MILWAUKEE, WI 53204
Email To: SPETROFSKE@RAMBOLL.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: SPETROFSKE@RAMBOLL.COM
Copy To:
Purchase Order No.:
Project Name: FORMER MIRRO 20
Project Number: 1690019558

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 43268

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: TO-15 Short List (other)	Pace Lab ID
1	EAST SUMP	6LC	TB2	7-8-21	805	7-8-21	842	-30	-2	2767	2992	X	001 002
2	WEST SUMP	6LC	38	7-8-21	811	7-8-21	845	-29	-4	0842	2919	X	003 004
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Comments:
SEE EMAIL FROM PLINDQUIST@RAMBOLL.COM FOR TO-15 SHORT LIST (OTHER)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] / RAMBOLL	7-8	1500	FEDEX	7-8	1500
			[signature] / Pace	7-13-21	10:00

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

WO#: 10569630

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR) - Air	Document Revised: 24Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0113 Rev.00	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt Client Name: Ramboll Project #:

WO#: 10569630
PM: CT1 Due Date: 07/20/21
CLIENT: Ramboll-WI

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial See Exception [ ]

Tracking Number: 9753 8443 7929

Custody Seal on Cooler/Box Present? [ ] Yes [X] No Seals Intact? [ ] Yes [ ] No

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: _____ Temp Blank rec: [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: [ ] G87A9170600254 [ ] G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 7-13-21 mT

Type of ice Received [ ] Blue [ ] Wet [X] None

			Comments:
Chain of Custody Present?	[X] Yes	[ ] No	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	3.
Sampler Name and/or Signature on COC? 7-13-21 mT	[X] Yes	[X] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	7.
Sufficient Volume?	[X] Yes	[ ] No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	[X] Yes [X] Yes	[ ] No [ ] No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	[X] Yes	[ ] No	10.
Media: Air Can Airbag Filter TDT Passive			11. Individually Certified Cans (Y) N (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes	[ ] No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	[ ] Yes	[X] No	13.

Gauge # [ ] 10AIR26 [X] 10AIR34 [ ] 10AIR35 [ ] 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
EAST	2767	2992	-3	+5					
WEST	842	2919	-4.5	+5					
Unused	2749	2911	-28	-					
"	3609	2672	-28	-					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout **Date:** 7/14/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)