From: Paul Lindquist <PLINDQUIST@ramboll.com>
Sent: Tuesday, June 20, 2023 3:32 PM
To: Beggs, Tauren R - DNR
Cc: Kristin Jones (Kristin.Jones@newellco.com)
Subject: NR 716.14 Data Transmittal BRRTS #: 02-36-545108 (MIRRO PLT 9 [Former] - LGU)
Attachments: 02-36-545108_Apr 2023 GW Data Transmittal_06 20 2023.pdf

Good afternoon Tauren,

Attached for your records is a copy of the data transmittal letter for the April 2023 groundwater sampling activities completed as part of the site investigation of the former Mirro Plant No. 9 facility (BRRTS #02-36-545108) located at 1512 Washington Street in Manitowoc, WI. Please note, a copy of the letter and attachments has been uploaded to the WDNR RR Program Submission Portal.

Thank you.

Paul Lindquist

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ENVIRONMENT
& HEALTH

Sent via E-Mail

Mr. Tauren Beggs
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

NR 716.14 DATA TRANSMITTAL
APRIL 2023 GROUNDWATER ANALYTICAL RESULTS
FORMER MIRRO PLANT NO. 9 FACILITY
1512 WASHINGTON STREET, MANITOWOC, WISCONSIN
WDNR BRRTS NO. 02-36-545108

Dear Mr. Beggs:

Ramboll US Consulting, Inc. (Ramboll), on behalf of Newell Operating Company (NOC), is providing the Wisconsin Department of Natural Resources (WDNR) with the attached analytical results for the April 2023 groundwater sampling event completed as part of the site investigation of the former Mirro Plant No. 9 site in Manitowoc, Wisconsin. The groundwater samples were collected between April 24 and April 27, 2023, in accordance with the approved Additional Site Investigation Work Plan submitted to the WDNR on June 6, 2022, and approved on July 12, 2022. A figure showing the monitoring well locations is attached along with draft tabulated results (Attachment A) and the laboratory analytical reports (Attachment B).

If you have any questions, please feel free to contact us at the numbers listed below.

Yours sincerely,

Paul D. Lindquist
Managing Consultant

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cc: Kristin Jones, NOC

June 20, 2023

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ATTACHMENT A

TABLE AND FIGURE

Table 1: April 2023 Groundwater Analytical Results

Figure 1: Site Layout and Monitoring Well Network

Table 1. April 2023 Groundwater Analytical Results - PFAS

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

Sample Location	Sample Date	WI DHS Recommended Summation of 6 PFAS[1]	Fluorotelomer sulfonic acid (FTSA)					Perfluoroalkane sulfomides (FASA) and derivatives							Perfluoroalkane sulfonic acid (PFSA)								Perfluoroalkyl carboxylic acid (PFCA)										Polyfluoroalkyl ether sulfonic acid (PFESA)	
			4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4:2 Fluorotelomer sulfonic acid	6:2 Fluorotelomer sulfonic acid	8:2 Fluorotelomer sulfonic acid	HFPO-DA (GenX)	NEtFOSA	NEtFOSAA	NEtFOSE	NMeFOSA	NMeFOSAA	NMeFOSE	Perfluorooctanesulfonamide (FOSA)	Perfluorobutanesulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorododecanesulfonic acid (PFDoS)	Perfluoroheptanesulfonic Acid (PFHpS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanesulfonic acid (PFNS)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeA)	Perfluorotridecanoic acid (PFTriA)	Perfluoroundecanoic acid (PFUnA)	11Cl-PF3OUdS (F-53B Minor)	9Cl-PF3ONS (F-53B Major)
Reporting Units:		ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
WI DHS Recommended ES:		**20**	**3,000**	**NS**	**NS**	**NS**	**300**	**20**	**20**	**20**	**NS**	**NS**	**NS**	**20**	**450,000**	**NS**	**NS**	**NS**	**40**	**NS**	**20**	**NS**	**10,000**	**300**	**500**	**NS**	**150,000**	**30**	**20**	**NS**	**10,000**	**NS**	**3,000**	**NS**	**NS**
WI DHS Recommended PAL:		2	600	NS	NS	NS	30	2	2	2	NS	NS	NS	2	90,000	NS	NS	NS	4	NS	2	NS	2,000	60	100	NS	30,000	3	2	NS	2,000	NS	600	NS	NS
AECOM MW-19	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-14	4/25/2023	**204.1**	<1.8 U	<1.8 U	<4.5 U	<1.8 U	<3.6 U	<1.8 U	<4.5 U	<1.8 U	<1.8 U	<4.5 U	<3.6 U	<1.8 U	3.4	<1.8 U	<1.8 U	<1.8 U	4.5	<1.8 U	4.1	<1.8 U	10	<1.8 U	<1.8 U	12	8.3	<1.8 U	**200**	6.8	<1.8 U	<1.8 U	<1.8 U	<1.8 U
AMEC MW-15	4/25/2023	**65.0**	<1.8 U	<1.8 U	<4.5 U	<1.8 U	<3.6 U	<1.8 U	<4.5 U	<1.8 U	<1.8 U	<4.5 U	<3.6 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	5.6	<1.8 U	**20**	<1.8 U	<4.5 U	<1.8 U	<1.8 U	11	2.5	2.7	**45**	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U
AMEC MW-16	4/25/2023	**470.0**	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.8 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.8 U	<1.9 U	0.79 J	<1.9 U	<1.9 U	<1.9 U	1.8 J	<1.9 U	<1.9 U	<1.9 U	7.7	<1.9 U	<1.9 U	36	14	0.47 J	**470**	3.6	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC MW-16A	4/25/2023	8.0	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	0.66 J	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	1.2 J	1.4 J	<1.9 U	8	0.9 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC MW-17	4/26/2023	**59.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	1.4 J	<1.9 U	<1.9 U	<1.9 U	0.62 J	<1.9 U	<1.9 U	<1.9 U	9.1	<1.9 U	<1.9 U	3.4	4.5	0.43 J	**59**	5.2	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-3	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/26/2023	**1,600**	<10 UJ	<10 UJ	<25 UJ	<10 U	<20 U	<10 U	<25 U	<10 U	<10 U	<25 U	<20 U	<10 U	<10 UJ	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<500 U	<10 U	<10 U	<10 U	<10 UJ	<10 U	**1,600**	<5,100 UJ	<10 U	<10 U	<10 U	<10 U
MW-12	4/26/2023	**14,000**	<200 U	<200 U	<500 U	<200 U	<400 U	<200 U	<500 U	<200 U	<200 U	<500 U	<400 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<8,200 U	<200 U	<200 U	420	<200 U	<200 U	**14,000**	3,000 J	<200 U	<200 U	<200 U	<200 U
MW-12 DUP	4/26/2023	**12,000**	<200 U	<200 U	<500 U	<200 U	<400 U	<200 U	<500 U	<200 U	<200 U	<500 U	<400 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<200 U	<7,700 U	<200 U	<200 U	210 J	<200 U	<200 U	**12,000**	4,700 J	<200 U	<200 U	<200 U	<200 U
MW-15	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-31	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-48	4/26/2023	**1,012**	<1.8 U	<1.8 U	<4.6 U	<1.8 U	<3.7 U	<1.8 U	<4.6 U	<1.8 U	<1.8 U	<4.6 U	<3.7 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	1.3 J	<1.8 U	12	<1.8 U	3.2 J	<1.8 U	<1.8 U	31	5.6	1.4 J	**1,000**	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U
MW-60	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-200	4/25/2023	**96.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	19	<1.9 U	<1.9 U	<1.9 U	3.7	<1.9 U	<1.9 U	<1.9 U	7	<1.9 U	<1.9 U	6.7 J	5.4	<1.9 U	**96**	5.8	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-201	4/25/2023	**174.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	2.1	<1.9 U	<1.9 U	<1.9 U	5.6	<1.9 U	4	<1.9 U	16	<1.9 U	<1.9 U	14	33	<1.9 U	**170**	38 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-204	4/25/2023	**102.0**	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.9 U	<1.9 U	2	<1.9 U	<1.9 U	<1.9 U	32	<1.9 U	13	<1.9 U	13	<1.9 U	<1.9 U	6.9	9.5	<1.9 U	**89**	5.8	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-209	4/25/2023	**63.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.7 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.7 U	<1.9 U	1 J	<1.9 U	<1.9 U	<1.9 U	5.6	<1.9 U	15	<1.9 U	5.1	0.41 J	<1.9 U	2.3	1.9	0.96 J	**48**	2	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-213	4/25/2023	**350.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	2	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	33	8.1	<1.9 U	**350**	3.3	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-217	4/26/2023	10	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	1.5 J	1.4 J	<1.9 U	10	0.66 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-218	4/26/2023	**63**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.7 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.7 U	<1.9 U	1.9	<1.9 U	<1.9 U	<1.9 U	0.68 J	<1.9 U	<1.9 U	<1.9 U	5	<1.9 U	<1.9 U	2.3	1.6 J	<1.9 U	**63**	1 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-219	4/26/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226	4/25/2023	**180.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	2.2	<1.9 U	<1.9 U	<1.9 U	0.8 J	<1.9 U	<1.9 U	<1.9 U	14	<1.9 U	<1.9 U	13	12	<1.9 U	**180**	7.1	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-226 DUP	4/25/2023	**190.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	2	<1.9 U	<1.9 U	<1.9 U	0.87 J	<1.9 U	<1.9 U	<1.9 U	15	<1.9 U	<1.9 U	14	11	<1.9 U	**190**	7.9	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-228	4/25/2023	**44**	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.8 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.8 U	<1.9 U	3.3	<1.9 U	<1.9 U	<1.9 U	0.85 J	<1.9 U	<1.9 U	<1.9 U	7.1	<1.9 U	<1.9 U	3.8	3.7	<1.9 U	**44**	3.1	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-233	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-235	4/25/2023	**46.0**	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	3.6	<1.9 U	<1.9 U	<1.9 U	1.5 J	<1.9 U	<1.9 U	<1.9 U	6.2	<1.9 U	<1.9 U	2	2.2	<1.9 U	**46**	0.68 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-236	4/25/2023	**91.4**	<1.8 U	<1.8 U	<4.6 U	<1.8 U	<3.7 U	<1.8 U	<4.6 U	<1.8 U	<1.8 U	<4.6 U	<3.7 U	<1.8 U	2.6	<1.8 U	<1.8 U	<1.8 U	1.1 J	<1.8 U	1.4 J	<1.8 U	12	<1.8 U	<1.8 U	6.2	5.8	<1.8 U	**90**	3.8	<1.8 U	<1.8 U	<1.8 U	<1.8 U
PZ-200	4/25/2023	6.2	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	1.3 J	1.9	<1.9 U	6.2	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-206	4/26/2023	2.8	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<3.8 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	<4.7 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	0.72 J	1.2 J	<1.9 U	2.8	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-214	4/26/2023	**49.0**	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.8 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	2.8	1.3 J	<1.9 U	49	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-226	4/25/2023	4.4	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.8 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.8 U	1 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.8 U	0.31 J	<1.9 U	1 J	1.5 J	0.51 J	3.4	1.3 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-226 DUP	4/25/2023	3.7	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<3.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	<4.8 U	<3.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<4.8 U	<1.9 U	<1.9 U	1.1 J	1.5 J	0.52 J	3.7	1.4 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U

Bold	is equal to or greater than WI DHS Recommended Groundwater ES
Underlined	is equal to or greater than WI DHS Recommended Groundwater PAL
Gray Text	analyte not detected

Screening Levels:
Recommended PAL and ES from WI DHS developed groundwater standard recommendations.
(https://www.dhs.wisconsin.gov/water/gws-cycle10.htm)
(https://www.dhs.wisconsin.gov/water/gws-cycle11.htm)

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Results & Flags:
-- = Analysis not performed
< = Concentration is less than the Limit of Detection (LOD)
J = Estimated concentration
U = Concentration was not detected above the reported limit

Acronyms:
BRRTS = Bureau for Remediation and Redevelopment Tracking System
ES = Enforcement Standard
FID = facility identification number
ng/L = nanograms per liter
NS = No Screening Level
PAL = Preventive Action Limit
PFAS = per- and polyfluoroalkyl substances
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin
WI DHS = Wisconsin Department of Health Services

Superscripts:
1. PFAS (6) were calculated by Ramboll as follows:
   a. Where detections were observed, only the detected results were added together for the total summation.
   b. Where no detections were observed, the highest level of detection is presented as the sum
   c. Analytes used for the calculation are NEtFOSA, NEtFOSAA, NEtFOSE, FOSA, PFOS, and PFOA as identified in the "11th Cycle of Groundwater Standard Proposals" published on Nov 6, 2020 by the WI DHS.
   d. Qualifiers are not included in the summation of the total.

Table 1. April 2023 Groundwater Analytical Results - VOC

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

Sample Location	Sample Date	VOC																															
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene[1]	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WI Groundwater ES:		**70**	**200**	**0.2**	**5**	**850**	**7**	**NS**	**NS**	**60**	**70**	**0.2**	**0.05**	**600**	**5**	**5**	**600**		**0.4**	**NS**	**NS**	**75**	**NS**	**NS**	**NS**	**NS**	**5**	**NS**	**NS**	**0.6**	**4.4**	**10**
WI Groundwater PAL:		7	40	0.02	0.5	85	0.7	NS	NS	12	14	0.02	0.005	60	0.5	0.5	120	NS	0.04	NS	NS	15	NS	NS	NS	NS	0.5	NS	NS	0.06	0.44	1
AECOM MW-19	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
AMEC MW-14	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-15	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16A	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-17	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-5	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	2.5	0.37 J	<1 U	<1 U	<1 U	<1 U	<3 U
MW-6	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-9	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-12	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	4/26/2023	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<25 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	47	1 J	<5 U	<5 U	<1.1 U	<5 U	<15 U
MW-16	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-17	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-19	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-19 DUP	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.81 J	<2 U	0.63 J	<5 U	<1 U	0.38 J	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-31	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-37	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	7.5	<2 U	15	<5 U	<1 U	7.6	<1 U	<1 U	1.9	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-48	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-60	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-82 DUP	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-121	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	6.4 J+	44 J	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-121 DUP	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	5.7 J+	34 J	<1 U	<1 U	<1.1 U	<1 U	<3 U
MW-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-204	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-209	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-213	4/25/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	23	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-217	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-218	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-219	4/26/2023	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-228	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-233	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-235	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-236	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-206	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-214	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Bold	is equal to or greater than WI Groundwater ES
Underlined	is equal to or greater than WI Groundwater PAL
Gray Text	analyte not detected

Screening Levels:
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Results & Flags:
-- = Analysis not performed
< = Concentration is less than the Limit of Detection (LOD)
J = Estimated concentration
J+ = Indicates a concentration estimated with high bias due to laboratory method blank detection
U = Concentration was not detected above the reported limit

Acronyms:
µg/L = micrograms per liter
BRRTS = Bureau for Remediation and Redevelopment Tracking System
ES = Enforcement Standard
FID = facility identification number
NS = No Screening Level
PAL = Preventive Action Limit
VOC = Volatile Organic Compound
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin
WI DHS = Wisconsin Department of Health Services

Superscripts:
1. 1,3-Dichloropropene was calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, the detected results were added together for the total summation.
   c. cis-1,3-Dichloropropene and trans-1,3-Dichloropropene were used for the calculation.
   d. Qualifiers are not included in the summation of the total.
2. Total trimethylbenzenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.
   d. Qualifiers are not included in the summation of the total.

Table 1. April 2023 Groundwater Analytical Results - VOC

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

Sample Location	Sample Date	VOC: Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dibromochloromethane	Dibromomethane	Ethylbenzene	Freon 12	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	Methylene chloride (Dichloromethane)	Methyl-tert-butyl-ether	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Trimethylbenzenes, Total[2]	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes, Total
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WI Groundwater ES:		**5**	**NS**	**400**	**6**	**30**	**70**	**60**	**NS**	**700**	**1,000**	**NS**	**NS**	**NS**	**5**	**60**	**NS**	**NS**	**100**	**NS**	**100**	**NS**	**5**	**800**	**100**	**5**	**NS**	**480**	**NS**	**NS**	**0.2**	**2,000**
WI Groundwater PAL:		0.5	NS	80	0.6	3	7	6	NS	140	200	NS	NS	NS	0.5	12	NS	NS	10	NS	10	NS	0.5	160	20	0.5	NS	96	NS	NS	0.02	400
AECOM MW-19	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	0.48 J	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
AMEC MW-14	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-15	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16A	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-17	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	**5.3**	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-5	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	5.2	<3 U	<1 U	<1 U	17	<5 U	<1 U	<1 U	17	9.6	3.1	<1 U	0.85 J	<1 U	0.18 J	<1 U	<0.5 U	<1 U	110.92	110	0.92 J	<1 U	31
MW-6	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	1.8	<0.5 U	<1 U	0.19 J	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-9	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	0.68 J+	1.7 J	<1 U	<1 U	0.65 J+	1.4 J+	0.66 J+	<1 U	<1 U	<1 U	0.33 J	<1 U	**8.8**	<1 U	2.32 J+	1.4 J+	0.92 J+	<1 U	0.54 J
MW-12	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	4/26/2023	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	54	<15 U	<5 U	<5 U	47	**9.5** J	<5 U	44	59	**180**	23	<5 U	11	<5 U	1.7 J	<5 U	2 J+	<5 U	**1,910**	1,600	310	<5 U	490
MW-16	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	0.68	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-17	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	0.67 J+	0.65 J+	1.1 J+	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	4.6	<1 U	1.77 J+	0.96 J+	0.81 J+	<1 U	0.34 J
MW-19	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	3.5	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-19 DUP	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.58 J	<1 U	<1 U	<1 U	<1 U	0.16 J	<1 U	3.8	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-31	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.57 J	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	1.2	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-37	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	**10**	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-48	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-60	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	2.8	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.34 J	<1 U	<1 U	<1 U	<1 U	<0.5 U	1.6	0.27 J	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-82 DUP	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	2.8	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	1.6	0.28 J	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-121	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	42 J	<3 U	<1 U	<1 U	22	<5 U	<1 U	<1 U	28	**37**	4.4 J+	<1 U	<1 U	<1 U	0.22 J	<1 U	<0.5 U	<1 U	161	120 J	41	<1 U	120
MW-121 DUP	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	32 J	<3 U	<1 U	<1 U	19	<5 U	<1 U	<1 U	23	**32**	3.7 J+	<1 U	1.1 J+	<1 U	0.17 J	<1 U	<0.5 U	<1 U	192	160 J	32	<1 U	95
MW-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-204	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-209	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	1.8	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-213	4/25/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	79	<3 U	<1 U	<1 U	57	<5 U	<1 U	23	82	**98**	20	<1 U	8.2	<1 U	0.45 J	<1 U	<0.5 U	<1 U	**960**	710	250	<1 U	270
MW-217	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<0.5 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-218	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-219	4/26/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<0.5 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U
MW-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-228	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-233	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-235	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-236	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-206	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-214	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Bold	is equal to or greater than WI Groundwater ES
Underlined	is equal to or greater than WI Groundwater PAL
Gray Text	analyte not detected

Screening Levels:
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Results & Flags:
-- = Analysis not performed
< = Concentration is less than the Limit of Detection (LOD)
J = Estimated concentration
J+ = Indicates a concentration estimated with high bias due to laboratory method blank detection
U = Concentration was not detected above the reported limit

Acronyms:
µg/L = micrograms per liter
BRRTS = Bureau for Remediation and Redevelopment Tracking System
ES = Enforcement Standard
FID = facility identification number
NS = No Screening Level
PAL = Preventive Action Limit
VOC = Volatile Organic Compound
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin
WI DHS = Wisconsin Department of Health Services

Superscripts:
1. 1,3-Dichloropropene was calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, the detected results were added together for the total summation.
   c. cis-1,3-Dichloropropene and trans-1,3-Dichloropropene were used for the calculation.
   d. Qualifiers are not included in the summation of the total.
2. Total trimethylbenzenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.
   d. Qualifiers are not included in the summation of the total.

Table 1. April 2023 Groundwater Analytical Results - PCBs, Metals

Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

DRAFT

		PCB								Metal				
Sample Location	Sample Date	PCBs, Total[1]	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Chromium, Dissolved	Lead, Dissolved
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WI Groundwater ES:		**0.03**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**200**	**6**	**10**	**100**	**15**
WI Groundwater PAL:		0.003	NS	NS	NS	NS	NS	NS	NS	40	1.2	1	10	1.5
AECOM MW-19	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-14	4/25/2023	--	--	--	--	--	--	--	--	95 J	--	--	--	--
AMEC MW-15	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-16A	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC MW-17	4/26/2023	--	--	--	--	--	--	--	--	--	**21**	--	--	--
MW-3	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/25/2023	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<100 U	--	--	--	<0.5 U
MW-8	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	4/26/2023	--	--	--	--	--	--	--	--	140 J	<15 U	8.5	14 J	--
MW-12 DUP	4/26/2023	--	--	--	--	--	--	--	--	140 J	<15 U	8.2	13 J	--
MW-15	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	4/25/2023	**0.14**	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	<0.44 U	0.14 J	--	--	--	**160**	--
MW-19 DUP	4/25/2023	**0.095**	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	0.095 J	--	--	--	**160**	--
MW-31	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37	4/25/2023	**2.6**	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	2.6	--	--	--	--	--
MW-48	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-60	4/25/2023	<0.49 U	<0.49 U	<0.49 U	<0.49 U	<0.49 U	<0.49 U	<0.49 U	<0.49 U	62 J	--	--	--	--
MW-67	4/25/2023	**0.29**	<0.42 U	<0.42 U	<0.42 U	<0.42 U	<0.42 U	<0.42 U	0.29 J	--	--	--	--	--
MW-82	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121 DUP	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-204	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-209	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-213	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-217	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-218	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-219	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-228	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-233	4/25/2023	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	<0.43 U	--	--	--	--	--
MW-235	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-236	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-200	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-206	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-214	4/26/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226 DUP	4/25/2023	--	--	--	--	--	--	--	--	--	--	--	--	--

[O:MGP 6/9/23]

Bold	is equal to or greater than WI Groundwater ES
Underlined	is equal to or greater than WI Groundwater PAL
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PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

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   a. Where no detections were observed, the highest level of detection is presented as the sum
   b. Where detections were observed, the detected results were added together for the total summation.

MONITORING WELL
PIEZOMETER
TEMPORARY MONITORING POINT
STORM WATER TUNNEL/LINE (APPROXIMATE) - FORMER SHERMAN CREEK
PROPERTY BOUNDARY
PARCEL BOUNDARY

0 60 120 Feet

SITE LAYOUT AND EXISTING MONITORING WELL NETWORK

FIGURE 1

FORMER MIRRO PLANT NO. 9
MANITOWOC, WISCONSIN

RAMBOLL US CONSULTING, INC.

RAMBOLL

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 5/15/2023 3:38:46 PM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-232967-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization

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Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Method Summary 6
Sample Summary 7
Client Sample Results 8
Definitions 13
QC Association 14
Surrogate Summary 15
QC Sample Results 16
Chronicle 24
Certification Summary 25
Chain of Custody 26
Receipt Checklists 31
Field Data Sheets 33
Isotope Dilution Summary 34

Job ID: 500-232967-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232967-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2023 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 2.3º C and 3.3º C.

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

LCMS
No analytical or quality issues were noted, other than those described 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 320-672359.
Method: 3535_PFC_28D
Matrix: Aqueous

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: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-232967-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.66	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	10		1.9	0.80	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-218
Lab Sample ID: 500-232967-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.0		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	63		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.68	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232967-1	MW-217	Water	04/26/23 10:32	04/28/23 09:30
500-232967-2	MW-218	Water	04/26/23 09:23	04/28/23 09:30

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-232967-1
Date Collected: 04/26/23 10:32
Matrix: Water
Date Received: 04/28/23 09:30

Method: SW846 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			05/09/23 01:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/09/23 01:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/09/23 01:09	1
Bromoform	<0.48		1.0	0.48	ug/L			05/09/23 01:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/09/23 01:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/09/23 01:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/09/23 01:09	1
Chloroform	<0.37		2.0	0.37	ug/L			05/09/23 01:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/09/23 01:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/09/23 01:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/09/23 01:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/09/23 01:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/09/23 01:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/09/23 01:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/09/23 01:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/09/23 01:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/09/23 01:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/09/23 01:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/09/23 01:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/09/23 01:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/09/23 01:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/09/23 01:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/09/23 01:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/09/23 01:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/09/23 01:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/09/23 01:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/09/23 01:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/09/23 01:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/09/23 01:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/09/23 01:09	1
Styrene	<0.39		1.0	0.39	ug/L			05/09/23 01:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/09/23 01:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/09/23 01:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/09/23 01:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/09/23 01:09	1
Toluene	<0.15		0.50	0.15	ug/L			05/09/23 01:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/09/23 01:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1

Client Sample ID: MW-217
Lab Sample ID: 500-232967-1
Date Collected: 04/26/23 10:32
Matrix: Water
Date Received: 04/28/23 09:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/09/23 01:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/09/23 01:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/09/23 01:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/09/23 01:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/09/23 01:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/09/23 01:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/09/23 01:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/09/23 01:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/09/23 01:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/09/23 01:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/09/23 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*		*05/09/23 01:09*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/09/23 01:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*05/09/23 01:09*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*05/09/23 01:09*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluoropentanoic acid (PFPeA)	**0.66**	**J**	1.9	0.46	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorohexanoic acid (PFHxA)	**1.4**	**J**	1.9	0.55	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluoroheptanoic acid (PFHpA)	**1.5**	**J**	1.9	0.24	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorooctanoic acid (PFOA)	**10**		1.9	0.80	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/05/23 05:13	05/06/23 15:15	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/05/23 05:13	05/06/23 15:15	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/05/23 05:13	05/06/23 15:15	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/05/23 05:13	05/06/23 15:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:13	05/06/23 15:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:13	05/06/23 15:15	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:13	05/06/23 15:15	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/05/23 05:13	05/06/23 15:15	1

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-232967-1
Date Collected: 04/26/23 10:32
Matrix: Water
Date Received: 04/28/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:13	05/06/23 15:15	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/05/23 05:13	05/06/23 15:15	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/05/23 05:13	05/06/23 15:15	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:13	05/06/23 15:15	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:13	05/06/23 15:15	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:13	05/06/23 15:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*76*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C5 PFPeA	*88*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C2 PFHxA	*98*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C4 PFHpA	*106*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C4 PFOA	*104*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C5 PFNA	*99*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C2 PFDA	*109*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C2 PFUnA	*100*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C2 PFDoA	*104*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C2 PFTeDA	*95*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C3 PFBS	*99*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
18O2 PFHxS	*103*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C4 PFOS	*102*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
13C8 FOSA	*101*		*10 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d-N-MeFOSA-M	*82*		*10 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d-N-EtFOSA-M	*71*		*10 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d7-N-MeFOSE-M	*52*		*10 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
d9-N-EtFOSE-M	*47*		*10 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
M2-4:2 FTS	*100*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
M2-6:2 FTS	*117*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*
M2-8:2 FTS	*130*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:15*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:13	05/09/23 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*97*		*25 - 150*	*05/05/23 05:13*	*05/09/23 19:55*	*1*

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218
Date Collected: 04/26/23 09:23
Date Received: 04/28/23 09:30

Lab Sample ID: 500-232967-2
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.0**		4.7	2.2	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluoropentanoic acid (PFPeA)	**1.0**	**J**	1.9	0.46	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorohexanoic acid (PFHxA)	**1.6**	**J**	1.9	0.54	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluoroheptanoic acid (PFHpA)	**2.3**		1.9	0.23	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorooctanoic acid (PFOA)	**63**		1.9	0.79	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**		1.9	0.19	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorohexanesulfonic acid (PFHxS)	**0.68**	**J**	1.9	0.53	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		05/05/23 05:13	05/06/23 15:26	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		05/05/23 05:13	05/06/23 15:26	1
NEtFOSA	<0.81		1.9	0.81	ng/L		05/05/23 05:13	05/06/23 15:26	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/05/23 05:13	05/06/23 15:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:13	05/06/23 15:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:13	05/06/23 15:26	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/05/23 05:13	05/06/23 15:26	1
NEtFOSE	<0.79		1.9	0.79	ng/L		05/05/23 05:13	05/06/23 15:26	1
4:2 FTS	<0.22		1.9	0.22	ng/L		05/05/23 05:13	05/06/23 15:26	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/05/23 05:13	05/06/23 15:26	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/05/23 05:13	05/06/23 15:26	1
DONA	<0.37		1.9	0.37	ng/L		05/05/23 05:13	05/06/23 15:26	1
F-53B Major	<0.22		1.9	0.22	ng/L		05/05/23 05:13	05/06/23 15:26	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:13	05/06/23 15:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*104*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C5 PFPeA	*103*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C4 PFHpA	*112*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C4 PFOA	*108*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C5 PFNA	*110*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C2 PFDA	*106*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C2 PFUnA	*112*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C2 PFDoA	*110*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C2 PFTeDA	*104*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*
13C3 PFBS	*110*		*25 - 150*	*05/05/23 05:13*	*05/06/23 15:26*	*1*

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218
Lab Sample ID: 500-232967-2
Date Collected: 04/26/23 09:23
Matrix: Water
Date Received: 04/28/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	117		25 - 150	05/05/23 05:13	05/06/23 15:26	1
13C4 PFOS	115		25 - 150	05/05/23 05:13	05/06/23 15:26	1
13C8 FOSA	109		10 - 150	05/05/23 05:13	05/06/23 15:26	1
d3-NMeFOSAA	100		25 - 150	05/05/23 05:13	05/06/23 15:26	1
d5-NEtFOSAA	107		25 - 150	05/05/23 05:13	05/06/23 15:26	1
d-N-MeFOSA-M	91		10 - 150	05/05/23 05:13	05/06/23 15:26	1
d-N-EtFOSA-M	84		10 - 150	05/05/23 05:13	05/06/23 15:26	1
d7-N-MeFOSE-M	56		10 - 150	05/05/23 05:13	05/06/23 15:26	1
d9-N-EtFOSE-M	53		10 - 150	05/05/23 05:13	05/06/23 15:26	1
M2-4:2 FTS	118		25 - 150	05/05/23 05:13	05/06/23 15:26	1
M2-6:2 FTS	120		25 - 150	05/05/23 05:13	05/06/23 15:26	1
M2-8:2 FTS	134		25 - 150	05/05/23 05:13	05/06/23 15:26	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/05/23 05:13	05/09/23 20:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		25 - 150	05/05/23 05:13	05/09/23 20:06	1

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

GC/MS VOA

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

LCMS

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

GC/MS VOA

Analysis Batch: 712075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232967-1	MW-217	Total/NA	Water	8260B	
MB 500-712075/7	Method Blank	Total/NA	Water	8260B	
LCS 500-712075/5	Lab Control Sample	Total/NA	Water	8260B	

LCMS

Prep Batch: 672359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232967-1 - RA	MW-217	Total/NA	Water	3535	
500-232967-1	MW-217	Total/NA	Water	3535	
500-232967-2	MW-218	Total/NA	Water	3535	
500-232967-2 - RA	MW-218	Total/NA	Water	3535	
MB 320-672359/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-672359/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-672359/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 672889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232967-1	MW-217	Total/NA	Water	537 (modified)	672359
500-232967-2	MW-218	Total/NA	Water	537 (modified)	672359
MB 320-672359/1-A	Method Blank	Total/NA	Water	537 (modified)	672359
LCS 320-672359/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	672359
LCSD 320-672359/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	672359

Analysis Batch: 673906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232967-1 - RA	MW-217	Total/NA	Water	537 (modified)	672359
500-232967-2 - RA	MW-218	Total/NA	Water	537 (modified)	672359
MB 320-672359/1-A	Method Blank	Total/NA	Water	537 (modified)	672359
LCS 320-672359/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	672359
LCSD 320-672359/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	672359

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232967-1

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)				
500-232967-1	MW-217	113	99	103	105				
LCS 500-712075/5	Lab Control Sample	113	100	101	105				
MB 500-712075/7	Method Blank	112	97	102	107				

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)

Lab Sample ID: MB 500-712075/7
Matrix: Water
Analysis Batch: 712075

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			05/09/23 00:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/09/23 00:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/09/23 00:24	1
Bromoform	<0.48		1.0	0.48	ug/L			05/09/23 00:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/09/23 00:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/09/23 00:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/09/23 00:24	1
Chloroform	<0.37		2.0	0.37	ug/L			05/09/23 00:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/09/23 00:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/09/23 00:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/09/23 00:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/09/23 00:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/09/23 00:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/09/23 00:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/09/23 00:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/09/23 00:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/09/23 00:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/09/23 00:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/09/23 00:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/09/23 00:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/09/23 00:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/09/23 00:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/09/23 00:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/09/23 00:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/09/23 00:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/09/23 00:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/09/23 00:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
Naphthalene	0.465	J	1.0	0.34	ug/L			05/09/23 00:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/09/23 00:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/09/23 00:24	1
Styrene	<0.39		1.0	0.39	ug/L			05/09/23 00:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/09/23 00:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/09/23 00:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/09/23 00:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/09/23 00:24	1
Toluene	<0.15		0.50	0.15	ug/L			05/09/23 00:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/09/23 00:24	1

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

Lab Sample ID: MB 500-712075/7
Matrix: Water
Analysis Batch: 712075

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/09/23 00:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/09/23 00:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/09/23 00:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/09/23 00:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/09/23 00:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/09/23 00:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/09/23 00:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/09/23 00:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/09/23 00:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/09/23 00:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/09/23 00:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*05/09/23 00:24*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*05/09/23 00:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*05/09/23 00:24*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*05/09/23 00:24*	*1*

Lab Sample ID: LCS 500-712075/5
Matrix: Water
Analysis Batch: 712075

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	49.3		ug/L		99	70 - 120
Bromobenzene	50.0	50.3		ug/L		101	70 - 122
Bromochloromethane	50.0	46.9		ug/L		94	65 - 122
Bromodichloromethane	50.0	45.2		ug/L		90	69 - 120
Bromoform	50.0	44.8		ug/L		90	56 - 132
Bromomethane	50.0	57.1		ug/L		114	40 - 152
Carbon tetrachloride	50.0	48.7		ug/L		97	59 - 133
Chlorobenzene	50.0	48.7		ug/L		97	70 - 120
Chloroethane	50.0	54.5		ug/L		109	48 - 136
Chloroform	50.0	47.5		ug/L		95	70 - 120
Chloromethane	50.0	44.0		ug/L		88	56 - 152
2-Chlorotoluene	50.0	53.0		ug/L		106	70 - 125
4-Chlorotoluene	50.0	53.0		ug/L		106	68 - 124
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 125
cis-1,3-Dichloropropene	50.0	48.4		ug/L		97	64 - 127
Dibromochloromethane	50.0	44.6		ug/L		89	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/L		97	56 - 123
1,2-Dibromoethane	50.0	49.6		ug/L		99	70 - 125
Dibromomethane	50.0	46.8		ug/L		94	70 - 120
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	70 - 125
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	70 - 125
1,4-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 120
Dichlorodifluoromethane	50.0	54.0		ug/L		108	40 - 159
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 125

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

Lab Sample ID: LCS 500-712075/5
Matrix: Water
Analysis Batch: 712075

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	47.8		ug/L		96	68 - 127
1,1-Dichloroethene	50.0	48.1		ug/L		96	67 - 122
1,2-Dichloropropane	50.0	45.5		ug/L		91	67 - 130
1,3-Dichloropropane	50.0	48.9		ug/L		98	62 - 136
2,2-Dichloropropane	50.0	52.6		ug/L		105	58 - 139
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 121
Ethylbenzene	50.0	47.8		ug/L		96	70 - 123
Hexachlorobutadiene	50.0	50.8		ug/L		102	51 - 150
Isopropylbenzene	50.0	50.5		ug/L		101	70 - 126
Methylene Chloride	50.0	48.7		ug/L		97	69 - 125
Methyl tert-butyl ether	50.0	51.6		ug/L		103	55 - 123
Naphthalene	50.0	42.9		ug/L		86	53 - 144
n-Butylbenzene	50.0	52.4		ug/L		105	68 - 125
N-Propylbenzene	50.0	51.8		ug/L		104	69 - 127
p-Isopropyltoluene	50.0	51.4		ug/L		103	70 - 125
sec-Butylbenzene	50.0	51.7		ug/L		103	70 - 123
Styrene	50.0	50.6		ug/L		101	70 - 120
tert-Butylbenzene	50.0	51.9		ug/L		104	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/L		101	70 - 125
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	62 - 140
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 128
Toluene	50.0	47.0		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	62 - 128
1,2,3-Trichlorobenzene	50.0	46.2		ug/L		92	51 - 145
1,2,4-Trichlorobenzene	50.0	48.2		ug/L		96	57 - 137
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	70 - 125
1,1,2-Trichloroethane	50.0	47.4		ug/L		95	71 - 130
Trichloroethene	50.0	47.6		ug/L		95	70 - 125
Trichlorofluoromethane	50.0	47.0		ug/L		94	55 - 128
1,2,3-Trichloropropane	50.0	54.3		ug/L		109	50 - 133
1,2,4-Trimethylbenzene	50.0	52.7		ug/L		105	70 - 123
1,3,5-Trimethylbenzene	50.0	52.3		ug/L		105	70 - 123
Vinyl chloride	50.0	58.1		ug/L		116	64 - 126
Xylenes, Total	100	104		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-672359/1-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/05/23 05:13	05/06/23 12:16	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/05/23 05:13	05/06/23 12:16	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/05/23 05:13	05/06/23 12:16	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/05/23 05:13	05/06/23 12:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/05/23 05:13	05/06/23 12:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/05/23 05:13	05/06/23 12:16	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/05/23 05:13	05/06/23 12:16	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/05/23 05:13	05/06/23 12:16	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/05/23 05:13	05/06/23 12:16	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/05/23 05:13	05/06/23 12:16	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/05/23 05:13	05/06/23 12:16	1
DONA	<0.40		2.0	0.40	ng/L		05/05/23 05:13	05/06/23 12:16	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/05/23 05:13	05/06/23 12:16	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/05/23 05:13	05/06/23 12:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C5 PFPeA	*96*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C2 PFHxA	*99*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C4 PFHpA	*107*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C4 PFOA	*106*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C5 PFNA	*105*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C2 PFDA	*112*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C2 PFUnA	*105*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C2 PFDoA	*111*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C2 PFTeDA	*104*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*
13C3 PFBS	*111*		*25 - 150*	*05/05/23 05:13*	*05/06/23 12:16*	*1*

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

Lab Sample ID: MB 320-672359/1-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672359

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	111		25 - 150	05/05/23 05:13	05/06/23 12:16	1
13C4 PFOS	112		25 - 150	05/05/23 05:13	05/06/23 12:16	1
13C8 FOSA	99		10 - 150	05/05/23 05:13	05/06/23 12:16	1
d3-NMeFOSAA	102		25 - 150	05/05/23 05:13	05/06/23 12:16	1
d5-NEtFOSAA	110		25 - 150	05/05/23 05:13	05/06/23 12:16	1
d-N-MeFOSA-M	89		10 - 150	05/05/23 05:13	05/06/23 12:16	1
d-N-EtFOSA-M	84		10 - 150	05/05/23 05:13	05/06/23 12:16	1
d7-N-MeFOSE-M	59		10 - 150	05/05/23 05:13	05/06/23 12:16	1
d9-N-EtFOSE-M	57		10 - 150	05/05/23 05:13	05/06/23 12:16	1
M2-4:2 FTS	106		25 - 150	05/05/23 05:13	05/06/23 12:16	1
M2-6:2 FTS	119		25 - 150	05/05/23 05:13	05/06/23 12:16	1
M2-8:2 FTS	144		25 - 150	05/05/23 05:13	05/06/23 12:16	1

Lab Sample ID: MB 320-672359/1-A
Matrix: Water
Analysis Batch: 673906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/05/23 05:13	05/09/23 19:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		25 - 150	05/05/23 05:13	05/09/23 19:21	1

Lab Sample ID: LCS 320-672359/2-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	38.3		ng/L		96	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	38.9		ng/L		97	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	36.7		ng/L		92	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.7		ng/L		97	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.6		ng/L		97	60 - 135
Perfluorononanoic acid (PFNA)	40.0	37.2		ng/L		93	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.4		ng/L		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.9		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.6		ng/L		94	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	33.9		ng/L		85	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.0		ng/L		103	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	33.7		ng/L		95	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	37.1		ng/L		99	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.6		ng/L		95	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.7		ng/L		101	60 - 135

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

Lab Sample ID: LCS 320-672359/2-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	37.2	34.6		ng/L		93	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.0		ng/L		99	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	35.5		ng/L		92	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.4		ng/L		94	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.2		ng/L		98	60 - 135
NEtFOSA	40.0	37.7		ng/L		94	60 - 135
NMeFOSA	40.0	38.3		ng/L		96	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	37.5		ng/L		94	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.3		ng/L		101	60 - 135
NMeFOSE	40.0	41.2		ng/L		103	60 - 135
NEtFOSE	40.0	38.7		ng/L		97	60 - 135
4:2 FTS	37.5	40.1		ng/L		107	60 - 135
6:2 FTS	38.1	42.0		ng/L		110	60 - 135
8:2 FTS	38.4	41.7		ng/L		109	60 - 135
DONA	37.8	33.6		ng/L		89	60 - 135
F-53B Major	37.4	34.3		ng/L		92	60 - 135
F-53B Minor	37.8	33.9		ng/L		90	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*100*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*114*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*115*		*25 - 150*
13C2 PFDA	*110*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*125*		*25 - 150*
13C2 PFTeDA	*104*		*25 - 150*
13C3 PFBS	*116*		*25 - 150*
18O2 PFHxS	*111*		*25 - 150*
13C4 PFOS	*116*		*25 - 150*
13C8 FOSA	*100*		*10 - 150*
d3-NMeFOSAA	*112*		*25 - 150*
d5-NEtFOSAA	*105*		*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	*59*		*10 - 150*
M2-4:2 FTS	*106*		*25 - 150*
M2-6:2 FTS	*121*		*25 - 150*
M2-8:2 FTS	*124*		*25 - 150*

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

Lab Sample ID: LCS 320-672359/2-A
Matrix: Water
Analysis Batch: 673906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672359

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HFPO-DA (GenX)			40.0	35.1		ng/L		88	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*108*		*25 - 150*

Lab Sample ID: LCSD 320-672359/3-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672359

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	40.1		ng/L		100	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)			40.0	40.6		ng/L		101	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)			40.0	39.1		ng/L		98	60 - 135	6	30
Perfluoroheptanoic acid (PFHpA)			40.0	41.0		ng/L		102	60 - 135	6	30
Perfluorooctanoic acid (PFOA)			40.0	40.5		ng/L		101	60 - 135	5	30
Perfluorononanoic acid (PFNA)			40.0	41.9		ng/L		105	60 - 135	12	30
Perfluorodecanoic acid (PFDA)			40.0	42.3		ng/L		106	60 - 135	5	30
Perfluoroundecanoic acid (PFUnA)			40.0	41.5		ng/L		104	60 - 135	3	30
Perfluorododecanoic acid (PFDoA)			40.0	38.5		ng/L		96	60 - 135	2	30
Perfluorotridecanoic acid (PFTriA)			40.0	39.0		ng/L		98	60 - 135	14	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.9		ng/L		105	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)			35.5	36.5		ng/L		103	60 - 135	8	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	41.8		ng/L		111	60 - 135	12	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	36.2		ng/L		99	60 - 135	5	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	39.4		ng/L		103	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)			37.2	36.7		ng/L		99	60 - 135	6	30
Perfluorononanesulfonic acid (PFNS)			38.5	38.2		ng/L		99	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	39.2		ng/L		102	60 - 135	10	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	35.2		ng/L		91	60 - 135	3	30
Perfluorooctanesulfonamide (FOSA)			40.0	42.3		ng/L		106	60 - 135	8	30
NEtFOSA			40.0	42.0		ng/L		105	60 - 135	11	30
NMeFOSA			40.0	41.2		ng/L		103	60 - 135	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	41.8		ng/L		104	60 - 135	11	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	43.5		ng/L		109	60 - 135	8	30
NMeFOSE			40.0	41.0		ng/L		102	60 - 135	1	30
NEtFOSE			40.0	41.5		ng/L		104	60 - 135	7	30
4:2 FTS			37.5	43.7		ng/L		116	60 - 135	9	30

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

Lab Sample ID: LCSD 320-672359/3-A
Matrix: Water
Analysis Batch: 672889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672359

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
6:2 FTS			38.1	39.6		ng/L		104	60 - 135	6	30
8:2 FTS			38.4	40.1		ng/L		104	60 - 135	4	30
DONA			37.8	35.7		ng/L		94	60 - 135	6	30
F-53B Major			37.4	35.4		ng/L		95	60 - 135	3	30
F-53B Minor			37.8	35.1		ng/L		93	60 - 135	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*98*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*
13C2 PFHxA	*100*		*25 - 150*
13C4 PFHpA	*106*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*103*		*25 - 150*
13C2 PFDA	*111*		*25 - 150*
13C2 PFUnA	*110*		*25 - 150*
13C2 PFDoA	*115*		*25 - 150*
13C2 PFTeDA	*104*		*25 - 150*
13C3 PFBS	*108*		*25 - 150*
18O2 PFHxS	*108*		*25 - 150*
13C4 PFOS	*115*		*25 - 150*
13C8 FOSA	*97*		*10 - 150*
d3-NMeFOSAA	*103*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
d-N-MeFOSA-M	*79*		*10 - 150*
d-N-EtFOSA-M	*74*		*10 - 150*
d7-N-MeFOSE-M	*56*		*10 - 150*
d9-N-EtFOSE-M	*57*		*10 - 150*
M2-4:2 FTS	*105*		*25 - 150*
M2-6:2 FTS	*133*		*25 - 150*
M2-8:2 FTS	*129*		*25 - 150*

Lab Sample ID: LCSD 320-672359/3-A
Matrix: Water
Analysis Batch: 673906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672359

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HFPO-DA (GenX)			40.0	36.5		ng/L		91	60 - 135	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*109*		*25 - 150*

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-232967-1
Date Collected: 04/26/23 10:32
Matrix: Water
Date Received: 04/28/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	712075	EA	EET CHI	05/09/23 01:09
Total/NA	Prep	3535			672359	RLT	EET SAC	05/05/23 05:13
Total/NA	Analysis	537 (modified)		1	672889	S1M	EET SAC	05/06/23 15:15
Total/NA	Prep	3535	RA		672359	RLT	EET SAC	05/05/23 05:13
Total/NA	Analysis	537 (modified)	RA	1	673906	S1M	EET SAC	05/09/23 19:55

Client Sample ID: MW-218
Lab Sample ID: 500-232967-2
Date Collected: 04/26/23 09:23
Matrix: Water
Date Received: 04/28/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672359	RLT	EET SAC	05/05/23 05:13
Total/NA	Analysis	537 (modified)		1	672889	S1M	EET SAC	05/06/23 15:26
Total/NA	Prep	3535	RA		672359	RLT	EET SAC	05/05/23 05:13
Total/NA	Analysis	537 (modified)	RA	1	673906	S1M	EET SAC	05/09/23 20:06

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

Eurofins Chicago QC: DCG
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Jo Mockenhaupt	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177 1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-232967
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 Na2SO3; R Na2S2O3; S H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other:
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site:	SSOW#:			

500-232967 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)	PFC_IDA_WI PFAS Standard List (33 analytes)	6020A Metals (Specify List)	8082A PCB	8260B VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A		
1 MW-217	4-26-23	1032	G	Water	N	N	X			X		
2 MW-218	4-26-23	0923	G	Water	N	N	X					
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water			4/MM	4-26-23				
				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

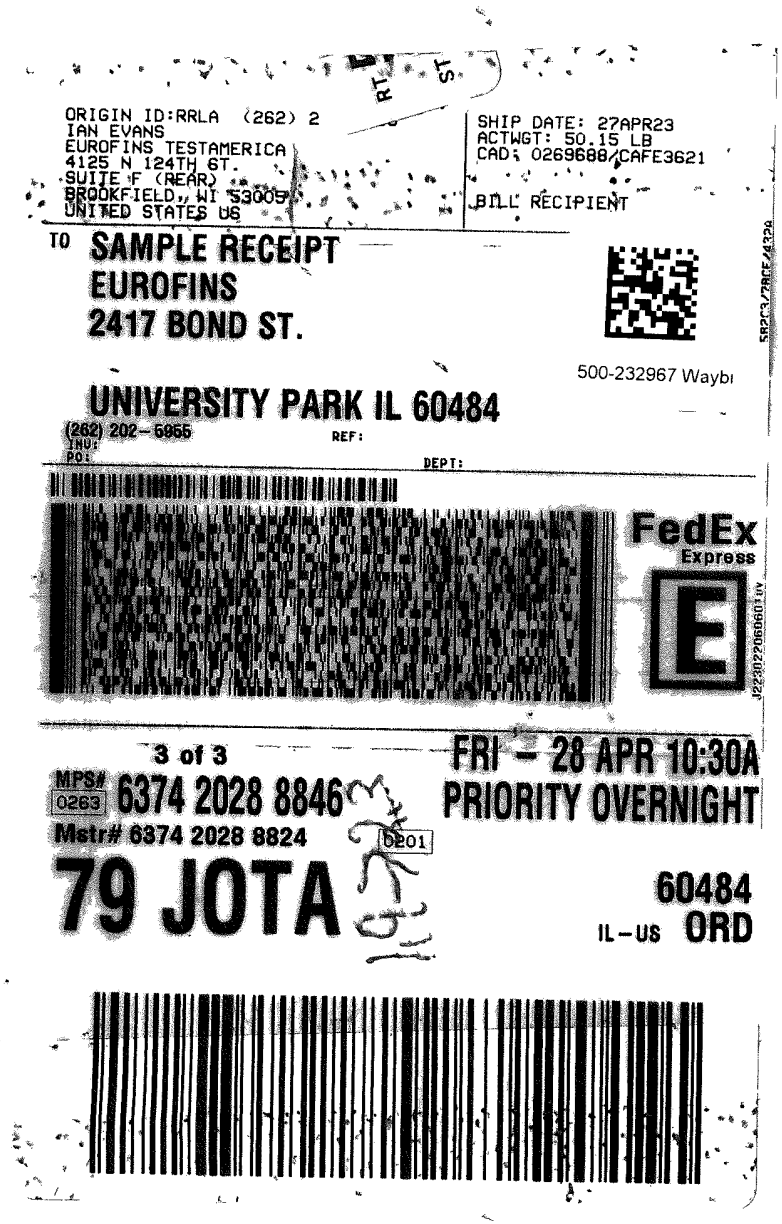
Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Date/Time	Company		Date/Time	Company
Relinquished by: Sarah Jo Mockenhaupt	4-27-23 927	Ramboll	Received by:	4.27.23 0927	Eurofins
Relinquished by:	4.27.23 1700	Eurofins	Received by:	4/28/23 0945	BRT
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		1.9-2.3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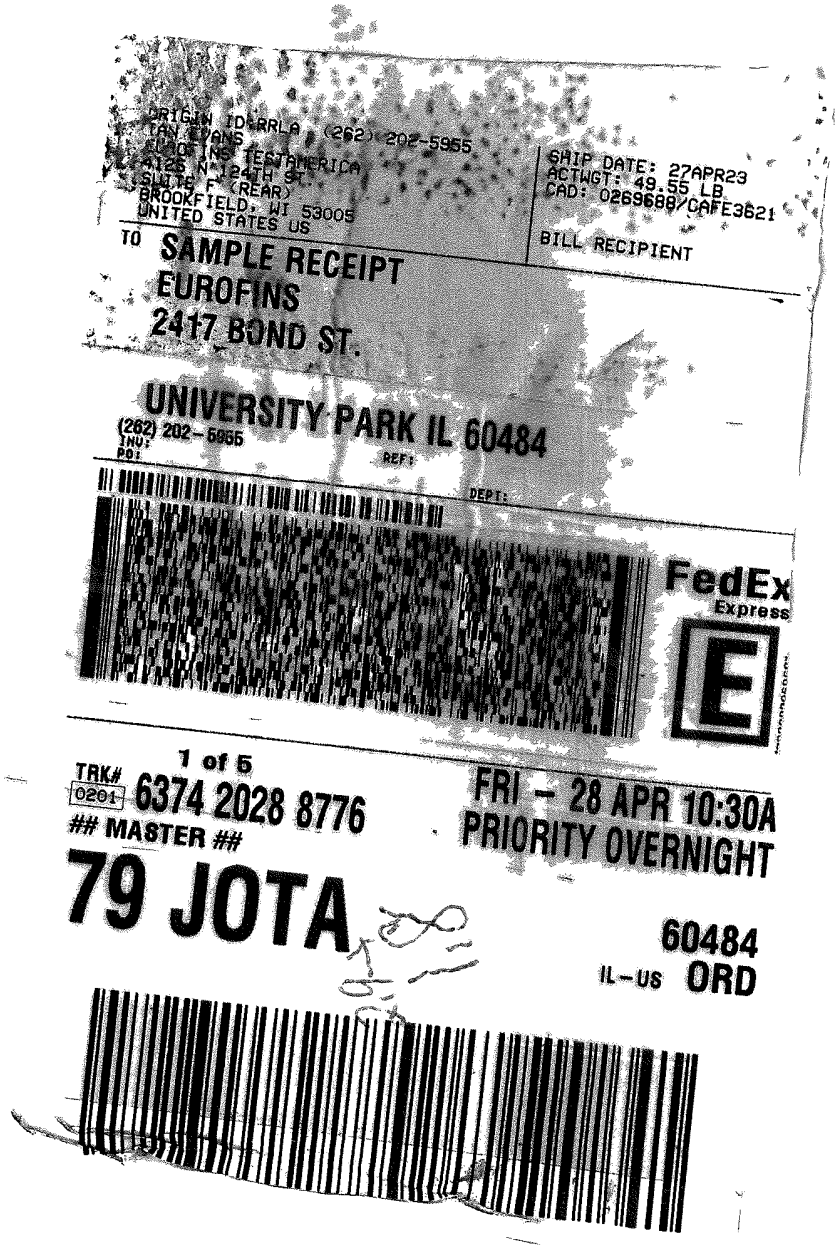
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 50.15 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
(262) 202-5965
INV:
PO:
REF:
DEPT:
500-232967 Waybi
FedEx
Express
3 of 3
MPS# 0263 6374 2028 8846
Mstr# 6374 2028 8824
0201
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD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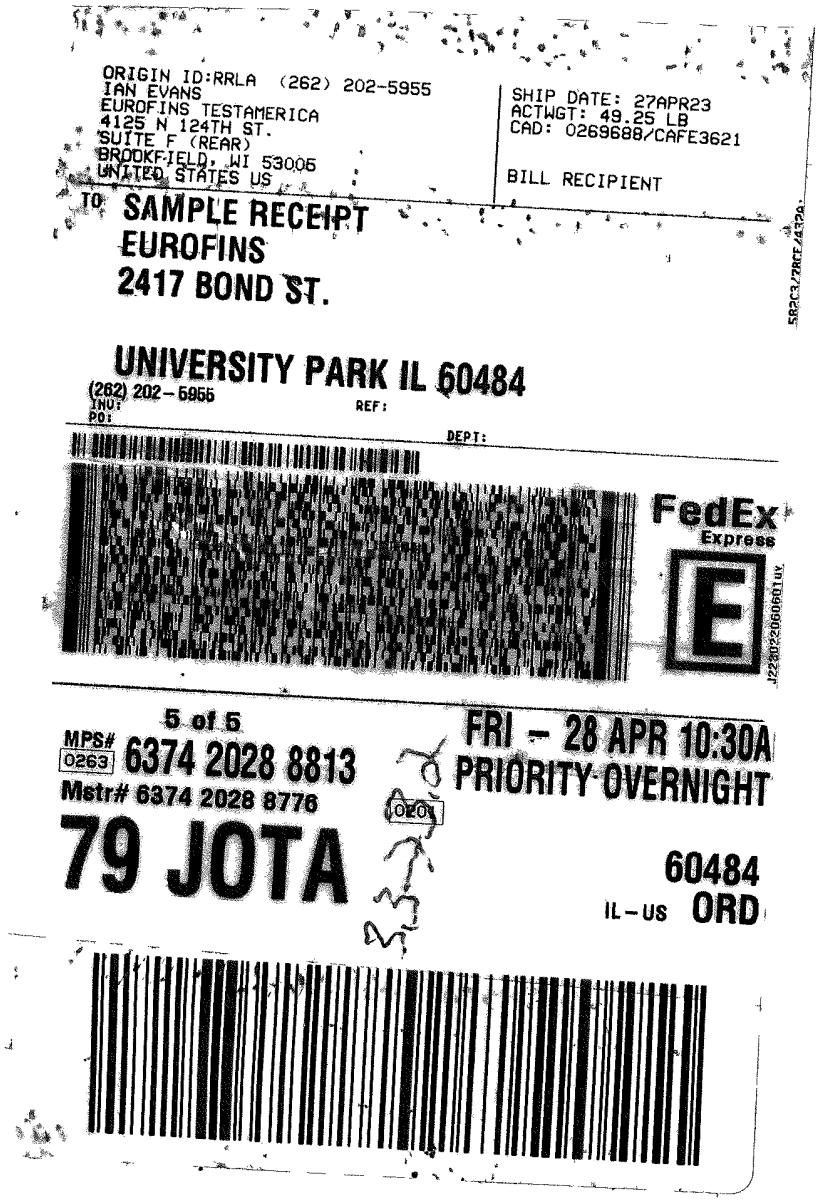
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 49.55 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
(262) 202-5965
INV:
PO:
REF:
DEPT:
FedEx
Express
1 of 5
TRK# 0201 6374 2028 8776
MASTER
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD


ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 49.25 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
(262) 202-5955
INV:
PO:
REF:
DEPT:
FedEx
Express
5 of 5
MPS# 0263 6374 2028 8813
Mstr# 6374 2028 8776
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD


ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 49.90 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
(262) 202-5955
INV:
PO:
REF:
DEPT:
FedEx
Express
3 of 5
MPS# 0263 6374 2028 8798
Mstr# 6374 2028 8776
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD

Eurofins Chicago QC: DCM
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Jo Markert	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	D	N	A		
MW-217	4-26-23	1032	G	Water	N	X			X		
MW-218	4-26-23	0923	G	Water	N	X					
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

500-232967 Chain of Custody

4-26-23

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		4-27-23 927	Ramboll		4.27.23 01:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	EETSac
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133472

Cooler Temperature(s) °C and Other Remarks: 3-3

Ver: 01/16/2019

5/15/2023

Eurofins Chicago QC: DCG
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Sobieski	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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; Y - Trizma; 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	D	N	A		
MW-217	4-26-23	1032	G	Water	N	X			X		
MW-218	4-26-23	0923	G	Water	N	X					
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

500-232967 Chain of Custody

4-25-23

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	Sarah Sobieski	4-27-23 927	Ramboll		4.27.23 09:27	Eurofins
2		4.27.23 1700	Eurofins		4/25/23 0930	EEPac
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 213472

Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-232967-1

Login Number: 232967
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins 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	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-232967-1

Login Number: 232967
List Number: 2
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 05/01/23 11:37 AM

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	2133472
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	3.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

Sacramento
Sample Receiving Notes

500-232967 Field Sheet

Job: _____

Tracking # : 6374 2028 8754

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: 103 Corr. Factor: (+ / -) N/A °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 2133472

Cooler ID: 1052

Temp Observed: 3.3 °C Corrected: 3.3 °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: SO Date: 4/28/23

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
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: SO Date: 5/11/23

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: SO Date: 5/11/23

Isotope Dilution Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232967-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
500-232967-1	MW-217	76	88	98	106	104	99	109	100
500-232967-2	MW-218	104	103	105	112	108	110	106	112
LCS 320-672359/2-A	Lab Control Sample	100	97	102	114	105	115	110	106
LCSD 320-672359/3-A	Lab Control Sample Dup	98	97	100	106	104	103	111	110
MB 320-672359/1-A	Method Blank	101	96	99	107	106	105	112	105

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(10-150)	(25-150)	(25-150)
500-232967-1	MW-217	104	95	99	103	102	101	97	102
500-232967-2	MW-218	110	104	110	117	115	109	100	107
LCS 320-672359/2-A	Lab Control Sample	125	104	116	111	116	100	112	105
LCSD 320-672359/3-A	Lab Control Sample Dup	115	104	108	108	115	97	103	104
MB 320-672359/1-A	Method Blank	111	104	111	111	112	99	102	110

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		dMeFOSA	dEtFOSA	NMFM	NEFM	M242FTS	M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(10-150)	(10-150)	(25-150)	(25-150)	(25-150)
500-232967-1	MW-217	82	71	52	47	100	117	130
500-232967-2	MW-218	91	84	56	53	118	120	134
LCS 320-672359/2-A	Lab Control Sample	83	81	57	59	106	121	124
LCSD 320-672359/3-A	Lab Control Sample Dup	79	74	56	57	105	133	129
MB 320-672359/1-A	Method Blank	89	84	59	57	106	119	144

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

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232967-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**HFPODA (25-150)**
500-232967-1 - RA	MW-217	97
500-232967-2 - RA	MW-218	106
LCS 320-672359/2-A	Lab Control Sample	108
LCSD 320-672359/3-A	Lab Control Sample Dup	109
MB 320-672359/1-A	Method Blank	106

Surrogate Legend

HFPODA = 13C3 HFPO-DA

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 5/9/2023 11:47:31 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-232966-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization

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Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Method Summary 6
Sample Summary 7
Client Sample Results 8
Definitions 10
QC Association 11
QC Sample Results 12
Chronicle 17
Certification Summary 18
Chain of Custody 19
Receipt Checklists 22
Field Data Sheets 24
Isotope Dilution Summary 25

Case Narrative

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232966-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232966-1

Comments
No additional comments.

Receipt
The sample was received on 4/28/2023 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

LCMS
No analytical or quality issues were noted, other than those described 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 320-671820.
Method: 3535_PFC_28D
Matrix: Aqueous

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: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-232966-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.1		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.1		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	44		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.85	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET 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:

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

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232966-1	MW-228	Water	04/25/23 08:05	04/28/23 09:30

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-232966-1
Date Collected: 04/25/23 08:05
Matrix: Water
Date Received: 04/28/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.1**		4.8	2.3	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluoropentanoic acid (PFPeA)	**3.1**		1.9	0.47	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorohexanoic acid (PFHxA)	**3.7**		1.9	0.56	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluoroheptanoic acid (PFHpA)	**3.8**		1.9	0.24	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorooctanoic acid (PFOA)	**44**		1.9	0.82	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorobutanesulfonic acid (PFBS)	**3.3**		1.9	0.19	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorohexanesulfonic acid (PFHxS)	**0.85**	**J**	1.9	0.55	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		05/03/23 04:51	05/08/23 17:23	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		05/03/23 04:51	05/08/23 17:23	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/03/23 04:51	05/08/23 17:23	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/03/23 04:51	05/08/23 17:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		05/03/23 04:51	05/08/23 17:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		05/03/23 04:51	05/08/23 17:23	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/03/23 04:51	05/08/23 17:23	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/03/23 04:51	05/08/23 17:23	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/03/23 04:51	05/08/23 17:23	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/03/23 04:51	05/08/23 17:23	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/03/23 04:51	05/08/23 17:23	1
DONA	<0.38		1.9	0.38	ng/L		05/03/23 04:51	05/08/23 17:23	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/03/23 04:51	05/08/23 17:23	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/03/23 04:51	05/08/23 17:23	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/03/23 04:51	05/08/23 17:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*72*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C5 PFPeA	*91*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C2 PFHxA	*95*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C4 PFHpA	*106*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C4 PFOA	*101*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C5 PFNA	*102*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C2 PFDA	*103*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C2 PFUnA	*111*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C2 PFDoA	*106*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*05/03/23 04:51*	*05/08/23 17:23*	*1*

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-232966-1
Date Collected: 04/25/23 08:05
Matrix: Water
Date Received: 04/28/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	94		25 - 150	05/03/23 04:51	05/08/23 17:23	1
18O2 PFHxS	99		25 - 150	05/03/23 04:51	05/08/23 17:23	1
13C4 PFOS	105		25 - 150	05/03/23 04:51	05/08/23 17:23	1
13C8 FOSA	120		10 - 150	05/03/23 04:51	05/08/23 17:23	1
d3-NMeFOSAA	133		25 - 150	05/03/23 04:51	05/08/23 17:23	1
d5-NEtFOSAA	136		25 - 150	05/03/23 04:51	05/08/23 17:23	1
d-N-MeFOSA-M	107		10 - 150	05/03/23 04:51	05/08/23 17:23	1
d-N-EtFOSA-M	101		10 - 150	05/03/23 04:51	05/08/23 17:23	1
d7-N-MeFOSE-M	99		10 - 150	05/03/23 04:51	05/08/23 17:23	1
d9-N-EtFOSE-M	96		10 - 150	05/03/23 04:51	05/08/23 17:23	1
M2-4:2 FTS	84		25 - 150	05/03/23 04:51	05/08/23 17:23	1
M2-6:2 FTS	83		25 - 150	05/03/23 04:51	05/08/23 17:23	1
M2-8:2 FTS	92		25 - 150	05/03/23 04:51	05/08/23 17:23	1
13C3 HFPO-DA	96		25 - 150	05/03/23 04:51	05/08/23 17:23	1
13C2 10:2 FTS	106		25 - 150	05/03/23 04:51	05/08/23 17:23	1

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

LCMS

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

LCMS

Prep Batch: 671820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232966-1	MW-228	Total/NA	Water	3535	
MB 320-671820/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-671820/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-671820/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 673130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232966-1	MW-228	Total/NA	Water	537 (modified)	671820
MB 320-671820/1-A	Method Blank	Total/NA	Water	537 (modified)	671820
LCS 320-671820/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	671820
LCSD 320-671820/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	671820

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-671820/1-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/03/23 04:51	05/08/23 15:11	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/03/23 04:51	05/08/23 15:11	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/03/23 04:51	05/08/23 15:11	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/03/23 04:51	05/08/23 15:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/03/23 04:51	05/08/23 15:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/03/23 04:51	05/08/23 15:11	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/03/23 04:51	05/08/23 15:11	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/03/23 04:51	05/08/23 15:11	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/03/23 04:51	05/08/23 15:11	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/03/23 04:51	05/08/23 15:11	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/03/23 04:51	05/08/23 15:11	1
DONA	<0.40		2.0	0.40	ng/L		05/03/23 04:51	05/08/23 15:11	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/03/23 04:51	05/08/23 15:11	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/03/23 04:51	05/08/23 15:11	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/03/23 04:51	05/08/23 15:11	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C5 PFPeA	*90*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C2 PFHxA	*89*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C4 PFHpA	*96*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C4 PFOA	*89*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C5 PFNA	*96*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C2 PFDA	*98*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C2 PFUnA	*104*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C2 PFDoA	*95*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*
13C2 PFTeDA	*100*		*25 - 150*	*05/03/23 04:51*	*05/08/23 15:11*	*1*

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

Lab Sample ID: MB 320-671820/1-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671820

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	93		25 - 150	05/03/23 04:51	05/08/23 15:11	1
18O2 PFHxS	93		25 - 150	05/03/23 04:51	05/08/23 15:11	1
13C4 PFOS	103		25 - 150	05/03/23 04:51	05/08/23 15:11	1
13C8 FOSA	104		10 - 150	05/03/23 04:51	05/08/23 15:11	1
d3-NMeFOSAA	125		25 - 150	05/03/23 04:51	05/08/23 15:11	1
d5-NEtFOSAA	127		25 - 150	05/03/23 04:51	05/08/23 15:11	1
d-N-MeFOSA-M	89		10 - 150	05/03/23 04:51	05/08/23 15:11	1
d-N-EtFOSA-M	85		10 - 150	05/03/23 04:51	05/08/23 15:11	1
d7-N-MeFOSE-M	103		10 - 150	05/03/23 04:51	05/08/23 15:11	1
d9-N-EtFOSE-M	96		10 - 150	05/03/23 04:51	05/08/23 15:11	1
M2-4:2 FTS	76		25 - 150	05/03/23 04:51	05/08/23 15:11	1
M2-6:2 FTS	74		25 - 150	05/03/23 04:51	05/08/23 15:11	1
M2-8:2 FTS	82		25 - 150	05/03/23 04:51	05/08/23 15:11	1
13C3 HFPO-DA	97		25 - 150	05/03/23 04:51	05/08/23 15:11	1
13C2 10:2 FTS	88		25 - 150	05/03/23 04:51	05/08/23 15:11	1

Lab Sample ID: LCS 320-671820/2-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	42.3		ng/L		106	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.8		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.0		ng/L		112	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.7		ng/L		107	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.3		ng/L		106	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.8		ng/L		107	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	44.7		ng/L		112	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	43.0		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.4		ng/L		109	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	45.3		ng/L		113	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.5		ng/L		91	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	40.0		ng/L		113	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.8		ng/L		114	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	39.0		ng/L		107	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.0		ng/L		102	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	36.6		ng/L		98	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	40.1		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.7		ng/L		103	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	34.2		ng/L		88	60 - 135

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

Lab Sample ID: LCS 320-671820/2-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	44.8		ng/L		112	60 - 135
NEtFOSA	40.0	46.2		ng/L		115	60 - 135
NMeFOSA	40.0	41.1		ng/L		103	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.2		ng/L		105	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.4		ng/L		103	60 - 135
NMeFOSE	40.0	39.4		ng/L		99	60 - 135
NEtFOSE	40.0	42.9		ng/L		107	60 - 135
4:2 FTS	37.5	44.2		ng/L		118	60 - 135
6:2 FTS	38.1	41.1		ng/L		108	60 - 135
8:2 FTS	38.4	45.5		ng/L		119	60 - 135
DONA	37.8	39.5		ng/L		105	60 - 135
HFPO-DA (GenX)	40.0	39.8		ng/L		99	60 - 135
F-53B Major	37.4	39.7		ng/L		106	60 - 135
F-53B Minor	37.8	38.5		ng/L		102	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*85*		*25 - 150*
13C5 PFPeA	*80*		*25 - 150*
13C2 PFHxA	*82*		*25 - 150*
13C4 PFHpA	*86*		*25 - 150*
13C4 PFOA	*87*		*25 - 150*
13C5 PFNA	*87*		*25 - 150*
13C2 PFDA	*86*		*25 - 150*
13C2 PFUnA	*88*		*25 - 150*
13C2 PFDoA	*87*		*25 - 150*
13C2 PFTeDA	*86*		*25 - 150*
13C3 PFBS	*83*		*25 - 150*
18O2 PFHxS	*85*		*25 - 150*
13C4 PFOS	*92*		*25 - 150*
13C8 FOSA	*91*		*10 - 150*
d3-NMeFOSAA	*104*		*25 - 150*
d5-NEtFOSAA	*107*		*25 - 150*
d-N-MeFOSA-M	*82*		*10 - 150*
d-N-EtFOSA-M	*77*		*10 - 150*
d7-N-MeFOSE-M	*85*		*10 - 150*
d9-N-EtFOSE-M	*85*		*10 - 150*
M2-4:2 FTS	*63*		*25 - 150*
M2-6:2 FTS	*67*		*25 - 150*
M2-8:2 FTS	*71*		*25 - 150*
13C3 HFPO-DA	*84*		*25 - 150*
13C2 10:2 FTS	*81*		*25 - 150*

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

Lab Sample ID: LCSD 320-671820/3-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 671820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	44.0		ng/L		110	60 - 135	4	30
Perfluoropentanoic acid (PFPeA)			40.0	42.2		ng/L		106	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)			40.0	45.5		ng/L		114	60 - 135	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	44.5		ng/L		111	60 - 135	4	30
Perfluorooctanoic acid (PFOA)			40.0	42.3		ng/L		106	60 - 135	0	30
Perfluorononanoic acid (PFNA)			40.0	43.5		ng/L		109	60 - 135	2	30
Perfluorodecanoic acid (PFDA)			40.0	41.9		ng/L		105	60 - 135	6	30
Perfluoroundecanoic acid (PFUnA)			40.0	44.6		ng/L		112	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)			40.0	42.0		ng/L		105	60 - 135	3	30
Perfluorotridecanoic acid (PFTriA)			40.0	44.2		ng/L		110	60 - 135	3	30
Perfluorotetradecanoic acid (PFTeA)			40.0	38.0		ng/L		95	60 - 135	4	30
Perfluorobutanesulfonic acid (PFBS)			35.5	39.4		ng/L		111	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	42.6		ng/L		113	60 - 135	0	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.9		ng/L		107	60 - 135	0	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	38.7		ng/L		101	60 - 135	1	30
Perfluorooctanesulfonic acid (PFOS)			37.2	36.9		ng/L		99	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)			38.5	41.6		ng/L		108	60 - 135	4	30
Perfluorodecanesulfonic acid (PFDS)			38.6	41.7		ng/L		108	60 - 135	5	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	40.2		ng/L		104	60 - 135	16	30
Perfluorooctanesulfonamide (FOSA)			40.0	44.7		ng/L		112	60 - 135	0	30
NEtFOSA			40.0	43.9		ng/L		110	60 - 135	5	30
NMeFOSA			40.0	41.4		ng/L		104	60 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	43.3		ng/L		108	60 - 135	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	39.7		ng/L		99	60 - 135	4	30
NMeFOSE			40.0	43.3		ng/L		108	60 - 135	9	30
NEtFOSE			40.0	44.9		ng/L		112	60 - 135	5	30
4:2 FTS			37.5	41.7		ng/L		111	60 - 135	6	30
6:2 FTS			38.1	43.6		ng/L		114	60 - 135	6	30
8:2 FTS			38.4	45.1		ng/L		118	60 - 135	1	30
DONA			37.8	43.2		ng/L		114	60 - 135	9	30
HFPO-DA (GenX)			40.0	42.5		ng/L		106	60 - 135	7	30
F-53B Major			37.4	41.2		ng/L		110	60 - 135	4	30
F-53B Minor			37.8	42.1		ng/L		111	60 - 135	9	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*97*		*25 - 150*
13C5 PFPeA	*92*		*25 - 150*

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

Lab Sample ID: LCSD 320-671820/3-A
Matrix: Water
Analysis Batch: 673130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 671820

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	92		25 - 150
13C4 PFHpA	95		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	104		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	106		25 - 150
13C2 PFTeDA	104		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	102		25 - 150
13C8 FOSA	104		10 - 150
d3-NMeFOSAA	118		25 - 150
d5-NEtFOSAA	123		25 - 150
d-N-MeFOSA-M	93		10 - 150
d-N-EtFOSA-M	91		10 - 150
d7-N-MeFOSE-M	94		10 - 150
d9-N-EtFOSE-M	98		10 - 150
M2-4:2 FTS	73		25 - 150
M2-6:2 FTS	73		25 - 150
M2-8:2 FTS	79		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	93		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232966-1

Client Sample ID: MW-228

Date Collected: 04/25/23 08:05
Date Received: 04/28/23 09:30

Lab Sample ID: 500-232966-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			671820	RLT	EET SAC	05/03/23 04:51
Total/NA	Analysis	537 (modified)		1	673130	RS1	EET SAC	05/08/23 17:23

Laboratory References:

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

QC: DLG

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177 1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #: 500 - 232966

Address: 234 W Florida Street Fifth Floor	Due Date Requested:
City: Milwaukee	TAT Requested (days): Standard
State Zip: WI 53204	Compliance Project: Δ Yes Δ No
Phone: 262-901-3510(Tel)	PO #: MIRRO 9
Email: plindquist@ramboll com	WO #:
Project Name: Former Mirro Plant No 9 1690019647	Project #: 50018382
Site:	SSOW#:

500-232966 COC

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	Y Trizma
	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)	PFC_IDA_WI PFAS Standard List (33 analytes)	6020A Metals (Specify List)	8082A PCB	8260B VOC	Total Number of containers	Special Instructions/Note
Preservation Code:							N	D	N	A		
MW-228	4-25-23	805	G	Water	N	N	X					
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

4-25-23

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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	4-27-23 9:27	Ramboll		4-27 23 9:27	Eurofins
Relinquished by:	4.27.23 1700	Eurofins			
Relinquished by:			Received by:		

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
Δ Yes Δ No		

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

QC. DLG

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #:

Address: 234 W. Florida Street Fifth Floor	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Milwaukee	TAT Requested (days): Standard		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, Y - Trizma, Z - other (specify)
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No		
Phone: 262-901-3510(Tel)	PO #: MIRRO 9		
Email: plindquist@ramboll.com	WO #:		
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382		
Site:	SSOW#:		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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	D	N	A		
MW-228	4-25-23	805	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

500-232966 Chain of Custody

4-25-23

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	Sarah Jo Martens	4-27-23 9:27	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	EETSL
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 213472

Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 01/16/2019

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

QC: DCA

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Paul Lindquist	Sarah So Martens	Fredrick, Sandie		500-106210-45177.1
Company: Ramboll US Corporation	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Address: 234 W. Florida Street, Fifth Floor	PWSID	Analysis Requested		Job #
City: Milwaukee	Due Date Requested			Preservation Codes
State, Zip: WI, 53204	TAT Requested (days): Standard			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; Y - Trizma; Z - other (specify); Other
Phone: 262-901-3510(Tel)	Compliance Project: Δ Yes Δ No			
Email: plindquist@ramboll.com	PO #: MIRRO 9			
Project Name: Former Mirro Plant No 9 - 1690019647	WO #			
Site	Project #: 50018382			
	SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	D	N	A	
MW-228	4-25-23	805	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

500-232966 Chain of Custody

4-27-23

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	Sarah So Martens	4-27-23 9:27	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	EE Inc.
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133472

Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-232966-1

Login Number: 232966
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins 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	3.3C
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: 500-232966-1

Login Number: 232966
List Number: 2
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 05/01/23 11:37 AM

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	2133472
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	3.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

Sacramento
Sample Receiving Notes


500-232966 Field Sheet

Job: _____

Tracking # : 6374 2028 8754

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: 103 Corr. Factor: (+ / -) N/A °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 2133172

Cooler ID: 1052

Temp Observed: 3.3 °C Corrected: 3.3 °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: SO Date: 5/12/23

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
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: SO Date: 5/11/23

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: SO Date: 5/11/23

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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)
500-232966-1	MW-228	72	91	95	106	101	102	103	111
LCS 320-671820/2-A	Lab Control Sample	85	80	82	86	87	87	86	88
LCSD 320-671820/3-A	Lab Control Sample Dup	97	92	92	95	97	96	104	101
MB 320-671820/1-A	Method Blank	95	90	89	96	89	96	98	104

		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)
500-232966-1	MW-228	106	98	94	99	105	120	133	136
LCS 320-671820/2-A	Lab Control Sample	87	86	83	85	92	91	104	107
LCSD 320-671820/3-A	Lab Control Sample Dup	106	104	92	96	102	104	118	123
MB 320-671820/1-A	Method Blank	95	100	93	93	103	104	125	127

		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)
500-232966-1	MW-228	107	101	99	96	84	83	92	96
LCS 320-671820/2-A	Lab Control Sample	82	77	85	85	63	67	71	84
LCSD 320-671820/3-A	Lab Control Sample Dup	93	91	94	98	73	73	79	91
MB 320-671820/1-A	Method Blank	89	85	103	96	76	74	82	97

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-232966-1	MW-228	106
LCS 320-671820/2-A	Lab Control Sample	81
LCSD 320-671820/3-A	Lab Control Sample Dup	93
MB 320-671820/1-A	Method Blank	88

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

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232966-1
Project/Site: Former Mirro Plant No 9 - 1690019647

M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Lindquist
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Generated 5/31/2023 10:56:45 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-232968-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization

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Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 8
Method Summary 17
Sample Summary 18
Client Sample Results 20
Definitions 133
QC Association 135
Surrogate Summary 141
QC Sample Results 143
Chronicle 177
Certification Summary 188
Chain of Custody 189
Receipt Checklists 210
Field Data Sheets 212
Isotope Dilution Summary 214

Job ID: 500-232968-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232968-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.8º C, 2.2º C, 2.3º C and 3.7º C.

Receipt Exceptions
Didn't receive the metals bottle for sample 1. Sample received-forwarded from Sacramento.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): AMEC MW-15 (500-232968-6), MW-226 (500-232968-11) and MW-226 DUP (500-232968-12). Samples 6, 11 & 12, all containers received in Sacramento (two 250 mL unpreserved per sample) do not have times.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-711659 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260B: The laboratory control sample (LCS) for analytical batch 500-711833 recovered outside control limits for the following analytes: 2-Chlorotoluene, 4-Chlorotoluene and Bromobenzene. 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 method blank for analytical batch 500-711891 contained Trichloroethene above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or below the RL.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described 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 "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. 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.
AMEC MW-15 (500-232968-6) and MW-236 (500-232968-8)

Method 537 (modified): Results for samples AMEC MW-16 (500-232968-13), MW-12 (500-232968-30) and MW-12 DUP (500-232968-31) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: PZ-226 DUP (500-232968-10) and FB-2 (500-232968-15). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-12 (500-232968-30) and MW-12 DUP (500-232968-31). The associated samples were reanalyzed at dilution with concurring results. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Job ID: 500-232968-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: MW-12 (500-232968-30) and MW-12 DUP (500-232968-31). The associated samples were reanalyzed at dilution with concurring results. 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 above the established ratio limits. 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. MW-12 (500-232968-30)

Method 537 (modified): Results for sample MW-48 (500-232968-51) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. 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. MW-48 (500-232968-51) and (500-232968-A-32-C MSD)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: MW-9 (500-232968-32), MW-213 (500-232968-43), (500-232968-A-32-B MS) and (500-232968-A-32-C MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The following samples exhibited matrix interferences for Perfluorobutanoic acid (PFBA) causing elevation of the reporting limit: MW-12 (500-232968-30) and MW-12 DUP (500-232968-31). The reporting limit for the affected analyte has been raised to be equal to the matrix, and a "G" qualifier applied.

Method 537 (modified): The closing continuing calibration verification (CCV) standard associated with batch 320-675720 failed to meet acceptance limits. The associated samples were re-analyzed following a successful CCV resulting in repeated failure of the closing CCV , indicating that the sample matrix is adversely affecting the instrument and causing the failures.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-674232 and analytical batch 320-675720 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following samples are below the method recommended limit: MW-9 (500-232968-32), (500-232968-A-32-B MS) and (500-232968-A-32-C MSD). 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 samples.

Method 537 (modified): Results for sample MW-9 (500-232968-32), (500-232968-A-32-B MS) and (500-232968-A-32-C MSD) was reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The matrix spike duplicate (MSD) recoveries and precision for preparation batch 320-674232 and analytical batch 320-675720 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 537 (modified): The following samples exhibited matrix interferences for Perfluoropentanoic acid acid (PFPeA) causing elevation of the reporting limit: MW-9 (500-232968-32). The reporting limit for the affected analyte has been raised to be equal to the matrix, and a "G" qualifier applied.

Method 537 (modified): Due to the high concentration of Perfluoropentanoic acid (PFPeA), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-674232 and analytical batch 320-675720 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): The "I" qualifier means the transition mass ratio for HFPO-DA (GenX) was below the established ratio limits. The

Job ID: 500-232968-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte.
(500-232968-A-32-B MS) and (500-232968-A-32-C MSD)

No additional analytical or quality issues were noted, other than those described above or 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.

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-672361.
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-672361 were observed to have a thin layer of non-settleable particulates present in the bottom of the bottle prior to extraction. MW-235 (500-232968-7), MW-236 (500-232968-8), MW-226 (500-232968-11) and MW-226 DUP (500-232968-12)
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples contain non-settleable particulates which clogged the solid phase extraction column: MW-235 (500-232968-7) and MW-226 DUP (500-232968-12).
preparation batch 320-672361
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to possible high analyte concentration/foamy matrix, the initial volumes used for the following samples MW-12 (500-232968-30) and MW-12 DUP (500-232968-31) in preparation batch 320-672918 deviated from the standard procedure. A 10x dilution was made on the samples, then fortified IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
Method: 3535_PFC
Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-672918.
Method: 3535_PFC
Matrix: Aqueous

Method 3535: Due to the samples brownish orange in color and foamy, the initial volumes used for the following samples deviated from the standard procedure: MW-9 (500-232968-32), (500-232968-A-32 MS) and (500-232968-A-32 MSD). A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
preparation batch 320-674232
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples were orange in color and foamy which clogged the solid phase extraction column: MW-9 (500-232968-32), (500-232968-A-32 MS) and (500-232968-A-32 MSD).
preparation batch 320-674232
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: During the solid phase extraction process, the following samples were light orange in color and contained a thin layer of sediment at the bottom of the container which clogged the solid phase extraction column: MW-200 (500-232968-38) and AMEC MW-14 (500-232968-41).

Job ID: 500-232968-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

preparation batch 320-674232
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-674232 were light yellow in color following extraction and adjusting to the final volume. MW-9 (500-232968-32), (500-232968-A-32 MS) and (500-232968-A-32 MSD)
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the samples being dark brown in color and the potential for clogging, the initial volumes used for the following samples deviated from the standard procedure: MW-12 (500-232968-30) and MW-12 DUP (500-232968-31). A 100x dilution was made on the samples, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
preparation batch 320-675026
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the samples being brown in color and foamy, the initial volumes used for the following samples deviated from the standard procedure: MW-9 (500-232968-32), (500-232968-A-32 MS) and (500-232968-A-32 MSD). A 100x dilution was made on the samples, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
preparation batch 320-676606 and 320-676606
Method: 3535_PFC_28D
Matrix: Aqueous

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: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-17 — Lab Sample ID: 500-232968-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.1		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.2		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.5		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	59		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.43	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.62	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Antimony	21		3.0	1.3	ug/L	1		6020A	Dissolved

Client Sample ID: MW-121 — Lab Sample ID: 500-232968-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	44		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	42		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	22		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	37	B	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	28	B	1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	6.4	B	1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	4.4	B	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.22	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	41	B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	120		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	120	B	2.0	0.72	ug/L	2		8260B	Total/NA

Client Sample ID: MW-121 DUP — Lab Sample ID: 500-232968-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	34		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	32		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	19		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	32	B	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	23	B	1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	5.7	B	1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	3.7	B	1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.1	B	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.17	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	32	B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	95		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	160	B	2.0	0.72	ug/L	2		8260B	Total/NA

Client Sample ID: EB-5 — Lab Sample ID: 500-232968-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Chloroform	0.64	J	2.0	0.37	ug/L	1		8260B	Total/NA
Dibromochloromethane	0.98	J	1.0	0.49	ug/L	1		8260B	Total/NA
Toluene	0.15	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: FB-5 — Lab Sample ID: 500-232968-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS	2.4	J	4.6	2.3	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-15 — Lab Sample ID: 500-232968-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.5		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	45		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.7		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.6		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20	I	1.8	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-235 — Lab Sample ID: 500-232968-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.2		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.68	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	46		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.6		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-236 — Lab Sample ID: 500-232968-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.8		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.2		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	90		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.4	J I	1.8	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-226 — Lab Sample ID: 500-232968-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.3	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.4		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.51	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.0	J	1.9	0.94	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-226 DUP — Lab Sample ID: 500-232968-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.4	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.52	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226 — Lab Sample ID: 500-232968-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.1		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	12		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	180		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.80	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-226 DUP — Lab Sample ID: 500-232968-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.9		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	14		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	190		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC MW-16 — Lab Sample ID: 500-232968-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.7		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	14		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	36		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.47	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.79	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	470		9.5	4.1	ng/L	5		537 (modified)	Total/NA

Client Sample ID: AMEC MW-16A — Lab Sample ID: 500-232968-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.90	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8.0		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.66	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-2 — Lab Sample ID: 500-232968-15

No Detections.

Client Sample ID: EB-2 — Lab Sample ID: 500-232968-16

No Detections.

Client Sample ID: MW-233 — Lab Sample ID: 500-232968-17

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-60 — Lab Sample ID: 500-232968-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	62	J	100	25	ug/L	1		6020A	Dissolved

Client Sample ID: MW-67 — Lab Sample ID: 500-232968-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.29	J	0.42	0.073	ug/L	1		8082A	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 500-232968-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.5		0.50	0.16	ug/L	1		8260B	Total/NA
PCB-1260	0.14	J	0.44	0.076	ug/L	1		8082A	Total/NA
Chromium	160		5.0	1.1	ug/L	1		6020A	Dissolved

Client Sample ID: MW-37 — Lab Sample ID: 500-232968-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	7.6		1.0	0.33	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	1.9		1.0	0.40	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	7.5		1.0	0.46	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	15		1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	10		0.50	0.16	ug/L	1		8260B	Total/NA
PCB-1260	2.6		0.43	0.075	ug/L	1		8082A	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 500-232968-22

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 500-232968-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.8		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.19	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: AECOM MW-19 — Lab Sample ID: 500-232968-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.48	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 500-232968-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.68		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EB-03 — Lab Sample ID: 500-232968-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Chloroform	0.83	J	2.0	0.37	ug/L	1		8260B	Total/NA
Dibromochloromethane	0.91	J	1.0	0.49	ug/L	1		8260B	Total/NA

Client Sample ID: PZ-206 — Lab Sample ID: 500-232968-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.72	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-206 (Continued) — Lab Sample ID: 500-232968-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.8		1.9	0.80	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 500-232968-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.1	B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.67	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.65	J B	1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	4.6		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.96	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.81	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.34	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 500-232968-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0	J	2.5	0.73	ug/L	5		8260B	Total/NA
Ethylbenzene	54		2.5	0.92	ug/L	5		8260B	Total/NA
Isopropylbenzene	47	B	5.0	1.9	ug/L	5		8260B	Total/NA
Methylene Chloride	9.5	J	25	8.2	ug/L	5		8260B	Total/NA
Naphthalene	180	B	5.0	1.7	ug/L	5		8260B	Total/NA
n-Butylbenzene	44	B	5.0	1.9	ug/L	5		8260B	Total/NA
N-Propylbenzene	59	B	5.0	2.1	ug/L	5		8260B	Total/NA
p-Isopropyltoluene	47		5.0	1.8	ug/L	5		8260B	Total/NA
sec-Butylbenzene	23	B	5.0	2.0	ug/L	5		8260B	Total/NA
tert-Butylbenzene	11	B	5.0	2.0	ug/L	5		8260B	Total/NA
Toluene	1.7	J	2.5	0.76	ug/L	5		8260B	Total/NA
Trichloroethene	2.0	J B	2.5	0.82	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	310	B	5.0	1.3	ug/L	5		8260B	Total/NA
Xylenes, Total	490		5.0	1.1	ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	1600	B	50	18	ug/L	50		8260B	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 500-232968-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3000		200	49	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	420	I	200	25	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	14000		200	85	ng/L	10		537 (modified)	Total/NA
Aluminum	140	J	500	120	ug/L	5		6020A	Dissolved
Arsenic	8.5		1.0	0.23	ug/L	1		6020A	Dissolved
Chromium	14	J	25	5.7	ug/L	5		6020A	Dissolved

Client Sample ID: MW-12 DUP — Lab Sample ID: 500-232968-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4700		200	49	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	210		200	25	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12000		200	85	ng/L	10		537 (modified)	Total/NA
Aluminum	140	J	500	120	ug/L	5		6020A	Dissolved
Arsenic	8.2		1.0	0.23	ug/L	1		6020A	Dissolved
Chromium	13	J	25	5.7	ug/L	5		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232968-1

Client Sample ID: MW-9 — Lab Sample ID: 500-232968-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.68	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	1.4	B	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.65	J B	1.0	0.41	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.66	J B	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.33	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	8.8	B	0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.4	B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.92	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.54	J	1.0	0.22	ug/L	1		8260B	Total/NA
Perfluorooctanoic acid (PFOA)	1600		10	4.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-19 DUP — Lab Sample ID: 500-232968-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.38	J	1.0	0.33	ug/L	1		8260B	Total/NA
Naphthalene	0.58	J	1.0	0.34	ug/L	1		8260B	Total/NA
Toluene	0.16	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.81	J	1.0	0.46	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	0.63	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	3.8		0.50	0.16	ug/L	1		8260B	Total/NA
PCB-1260	0.095	J	0.43	0.075	ug/L	1		8082A	Total/NA
Chromium	160		5.0	1.1	ug/L	1		6020A	Dissolved

Client Sample ID: EB-06 — Lab Sample ID: 500-232968-34

No Detections.

Client Sample ID: FB-06 — Lab Sample ID: 500-232968-35

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-232968-36

No Detections.

Client Sample ID: MW-209 — Lab Sample ID: 500-232968-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.8		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	5.1		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	48		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.96	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.41	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.6		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-200 — Lab Sample ID: 500-232968-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.0		4.7	2.3	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-200 (Continued) — Lab Sample ID: 500-232968-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.8		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.4		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.7		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	96		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	19		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-200 — Lab Sample ID: 500-232968-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.2		1.9	0.80	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-201 — Lab Sample ID: 500-232968-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	16		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	38		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	33		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	14		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	170		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.0		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC MW-14 — Lab Sample ID: 500-232968-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.8		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.3		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	200		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.4		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.5		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		1.8	0.48	ng/L	1		537 (modified)	Total/NA
Aluminum	95	J	100	25	ug/L	1		6020A	Dissolved

Client Sample ID: MW-204 — Lab Sample ID: 500-232968-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.8		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.5		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.9		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	89		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	32		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.9	0.52	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213 — Lab Sample ID: 500-232968-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	79		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	57		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	98		1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	23		1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	82		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	23		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	20		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	8.2		1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.45	J	0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	270		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	710		10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene - DL	250		10	2.5	ug/L	10		8260B	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.1		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	33		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	350		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-01 — Lab Sample ID: 500-232968-44

No Detections.

Client Sample ID: EB-01 — Lab Sample ID: 500-232968-45

No Detections.

Client Sample ID: MW-82 — Lab Sample ID: 500-232968-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L	1		8260B	Total/NA
Naphthalene	0.34	J	1.0	0.34	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.27	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-82 DUP — Lab Sample ID: 500-232968-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.28	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 500-232968-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.37	J	0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	5.2		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	17		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	9.6		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	17		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	2.5		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	3.1		1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.85	J	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	110		1.0	0.36	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5 (Continued) — Lab Sample ID: 500-232968-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.92	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	31		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: PZ-214 — Lab Sample ID: 500-232968-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.3	J	1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.8		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	49		1.9	0.82	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-31 — Lab Sample ID: 500-232968-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.57	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-48 — Lab Sample ID: 500-232968-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.6		1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	31		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12	I	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1000		9.2	3.9	ng/L	5		537 (modified)	Total/NA

Client Sample ID: MW-219 — Lab Sample ID: 500-232968-52

No Detections.

Client Sample ID: EB-04 — Lab Sample ID: 500-232968-53

No Detections.

Client Sample ID: FB-04 — Lab Sample ID: 500-232968-54

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 500-232968-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	5.3		0.50	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232968-1	AMEC MW-17	Water	04/26/23 08:22	04/28/23 09:45
500-232968-2	MW-121	Water	04/26/23 12:11	04/28/23 09:45
500-232968-3	MW-121 DUP	Water	04/26/23 12:15	04/28/23 09:45
500-232968-4	EB-5	Water	04/26/23 14:00	04/28/23 09:45
500-232968-5	FB-5	Water	04/26/23 14:05	04/28/23 09:45
500-232968-6	AMEC MW-15	Water	04/25/23 09:04	04/28/23 09:45
500-232968-7	MW-235	Water	04/25/23 10:14	04/28/23 09:45
500-232968-8	MW-236	Water	04/25/23 11:19	04/28/23 09:45
500-232968-9	PZ-226	Water	04/25/23 12:50	04/28/23 09:45
500-232968-10	PZ-226 DUP	Water	04/25/23 12:55	04/28/23 09:45
500-232968-11	MW-226	Water	04/25/23 13:53	04/28/23 09:45
500-232968-12	MW-226 DUP	Water	04/25/23 13:58	04/28/23 09:45
500-232968-13	AMEC MW-16	Water	04/25/23 15:15	04/28/23 09:45
500-232968-14	AMEC MW-16A	Water	04/25/23 16:02	04/28/23 09:45
500-232968-15	FB-2	Water	04/25/23 15:50	04/28/23 09:45
500-232968-16	EB-2	Water	04/25/23 16:23	04/28/23 09:45
500-232968-17	MW-233	Water	04/25/23 07:55	04/28/23 09:45
500-232968-18	MW-60	Water	04/25/23 08:35	04/28/23 09:45
500-232968-19	MW-67	Water	04/25/23 09:35	04/28/23 09:45
500-232968-20	MW-19	Water	04/25/23 10:40	04/28/23 09:45
500-232968-21	MW-37	Water	04/25/23 11:53	04/28/23 09:45
500-232968-22	MW-6	Water	04/25/23 13:05	04/28/23 09:45
500-232968-23	MW-8	Water	04/25/23 14:00	04/28/23 09:45
500-232968-24	AECOM MW-19	Water	04/25/23 14:55	04/28/23 09:45
500-232968-25	MW-16	Water	04/25/23 15:50	04/28/23 09:45
500-232968-26	EB-03	Water	04/25/23 16:45	04/28/23 09:45
500-232968-27	PZ-206	Water	04/26/23 08:10	04/28/23 09:45
500-232968-28	MW-17	Water	04/26/23 09:00	04/28/23 09:45
500-232968-29	MW-15	Water	04/26/23 10:15	04/28/23 09:45
500-232968-30	MW-12	Water	04/26/23 11:20	04/28/23 09:45
500-232968-31	MW-12 DUP	Water	04/26/23 11:20	04/28/23 09:45
500-232968-32	MW-9	Water	04/26/23 13:00	04/28/23 09:45
500-232968-33	MW-19 DUP	Water	04/25/23 10:45	04/28/23 09:45
500-232968-34	EB-06	Water	04/26/23 14:00	04/28/23 09:45
500-232968-35	FB-06	Water	04/26/23 14:05	04/28/23 09:45
500-232968-36	TRIP BLANK	Water	04/25/23 00:00	04/28/23 09:45
500-232968-37	MW-209	Water	04/25/23 08:35	04/28/23 09:45
500-232968-38	MW-200	Water	04/25/23 10:15	04/28/23 09:45
500-232968-39	PZ-200	Water	04/25/23 11:10	04/28/23 09:45
500-232968-40	MW-201	Water	04/25/23 12:40	04/28/23 09:45
500-232968-41	AMEC MW-14	Water	04/25/23 14:05	04/28/23 09:45
500-232968-42	MW-204	Water	04/25/23 15:35	04/28/23 09:45
500-232968-43	MW-213	Water	04/25/23 16:35	04/28/23 09:45
500-232968-44	FB-01	Water	04/25/23 17:00	04/28/23 09:45
500-232968-45	EB-01	Water	04/25/23 17:05	04/28/23 09:45
500-232968-46	MW-82	Water	04/26/23 09:00	04/28/23 09:45
500-232968-47	MW-82 DUP	Water	04/26/23 09:00	04/28/23 09:45
500-232968-48	MW-5	Water	04/26/23 07:25	04/28/23 09:45
500-232968-49	PZ-214	Water	04/26/23 10:20	04/28/23 09:45
500-232968-50	MW-31	Water	04/26/23 11:15	04/28/23 09:45
500-232968-51	MW-48	Water	04/26/23 12:35	04/28/23 09:45
500-232968-52	MW-219	Water	04/26/23 13:35	04/28/23 09:45
500-232968-53	EB-04	Water	04/26/23 14:00	04/28/23 09:45
500-232968-54	FB-04	Water	04/26/23 14:05	04/28/23 09:45

Sample Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232968-55	MW-3	Water	04/26/23 15:00	04/28/23 09:45

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-17
Lab Sample ID: 500-232968-1
Date Collected: 04/26/23 08:22
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**9.1**		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluoropentanoic acid (PFPeA)	**5.2**		1.9	0.46	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorohexanoic acid (PFHxA)	**4.5**		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluoroheptanoic acid (PFHpA)	**3.4**		1.9	0.24	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorooctanoic acid (PFOA)	**59**		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorononanoic acid (PFNA)	**0.43**	**J**	1.9	0.25	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorobutanesulfonic acid (PFBS)	**1.4**	**J**	1.9	0.19	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorohexanesulfonic acid (PFHxS)	**0.62**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 02:21	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 02:21	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 02:21	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 02:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:20	05/11/23 02:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:20	05/11/23 02:21	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 02:21	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 02:21	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 02:21	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/05/23 05:20	05/11/23 02:21	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/05/23 05:20	05/11/23 02:21	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 02:21	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 02:21	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 02:21	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 02:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C5 PFPeA	*99*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 PFHxA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C4 PFHpA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C4 PFOA	*109*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C5 PFNA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 PFDA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 PFUnA	*106*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 PFDoA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 PFTeDA	*110*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*

Client Sample ID: AMEC MW-17
Lab Sample ID: 500-232968-1

Date Collected: 04/26/23 08:22
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
18O2 PFHxS	*107*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C4 PFOS	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C8 FOSA	*132*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d3-NMeFOSAA	*137*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d5-NEtFOSAA	*141*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d-N-MeFOSA-M	*113*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d-N-EtFOSA-M	*102*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d7-N-MeFOSE-M	*101*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
d9-N-EtFOSE-M	*104*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
M2-4:2 FTS	*84*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
M2-6:2 FTS	*76*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
M2-8:2 FTS	*83*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C3 HFPO-DA	*97*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*
13C2 10:2 FTS	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:21*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		3.0	1.3	ug/L		05/11/23 09:42	05/11/23 20:22	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-121
Lab Sample ID: 500-232968-2
Date Collected: 04/26/23 12:11
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**44**		0.50	0.15	ug/L			05/07/23 17:32	1
Bromobenzene	<0.36	*+	1.0	0.36	ug/L			05/07/23 17:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/07/23 17:32	1
Bromoform	<0.48		1.0	0.48	ug/L			05/07/23 17:32	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/07/23 17:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/23 17:32	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/07/23 17:32	1
Chloroform	<0.37		2.0	0.37	ug/L			05/07/23 17:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/07/23 17:32	1
2-Chlorotoluene	<0.31	*+	1.0	0.31	ug/L			05/07/23 17:32	1
4-Chlorotoluene	<0.35	*+	1.0	0.35	ug/L			05/07/23 17:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/23 17:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/07/23 17:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/07/23 17:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/07/23 17:32	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/07/23 17:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/07/23 17:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/07/23 17:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/07/23 17:32	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/07/23 17:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/07/23 17:32	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/07/23 17:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/07/23 17:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/07/23 17:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/07/23 17:32	1
Ethylbenzene	**42**		0.50	0.18	ug/L			05/07/23 17:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/07/23 17:32	1
Isopropylbenzene	**22**		1.0	0.39	ug/L			05/07/23 17:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/07/23 17:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/07/23 17:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
Naphthalene	**37**	**B**	1.0	0.34	ug/L			05/07/23 17:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
N-Propylbenzene	**28**	**B**	1.0	0.41	ug/L			05/07/23 17:32	1
p-Isopropyltoluene	**6.4**	**B**	1.0	0.36	ug/L			05/07/23 17:32	1
sec-Butylbenzene	**4.4**	**B**	1.0	0.40	ug/L			05/07/23 17:32	1
Styrene	<0.39		1.0	0.39	ug/L			05/07/23 17:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/07/23 17:32	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/07/23 17:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/23 17:32	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/23 17:32	1
Toluene	**0.22**	**J**	0.50	0.15	ug/L			05/07/23 17:32	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/23 17:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/07/23 17:32	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-121
Lab Sample ID: 500-232968-2
Date Collected: 04/26/23 12:11
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/07/23 17:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/07/23 17:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/23 17:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/23 17:32	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/07/23 17:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:32	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/07/23 17:32	1
1,3,5-Trimethylbenzene	**41**	**B**	1.0	0.25	ug/L			05/07/23 17:32	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/07/23 17:32	1
Xylenes, Total	**120**		1.0	0.22	ug/L			05/07/23 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*05/07/23 17:32*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*05/07/23 17:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*05/07/23 17:32*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*05/07/23 17:32*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**120**	**B**	2.0	0.72	ug/L			05/08/23 14:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*05/08/23 14:21*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/08/23 14:21*	*2*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/08/23 14:21*	*2*
Toluene-d8 (Surr)	*93*		*75 - 120*		*05/08/23 14:21*	*2*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-121 DUP
Lab Sample ID: 500-232968-3
Date Collected: 04/26/23 12:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**34**		0.50	0.15	ug/L			05/07/23 17:59	1
Bromobenzene	<0.36	*+	1.0	0.36	ug/L			05/07/23 17:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/07/23 17:59	1
Bromoform	<0.48		1.0	0.48	ug/L			05/07/23 17:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/07/23 17:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/23 17:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/07/23 17:59	1
Chloroform	<0.37		2.0	0.37	ug/L			05/07/23 17:59	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/07/23 17:59	1
2-Chlorotoluene	<0.31	*+	1.0	0.31	ug/L			05/07/23 17:59	1
4-Chlorotoluene	<0.35	*+	1.0	0.35	ug/L			05/07/23 17:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/23 17:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/07/23 17:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/07/23 17:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/07/23 17:59	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/07/23 17:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/07/23 17:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/07/23 17:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/07/23 17:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/07/23 17:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/07/23 17:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/07/23 17:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/07/23 17:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/07/23 17:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/07/23 17:59	1
Ethylbenzene	**32**		0.50	0.18	ug/L			05/07/23 17:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/07/23 17:59	1
Isopropylbenzene	**19**		1.0	0.39	ug/L			05/07/23 17:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/07/23 17:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/07/23 17:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
Naphthalene	**32**	**B**	1.0	0.34	ug/L			05/07/23 17:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
N-Propylbenzene	**23**	**B**	1.0	0.41	ug/L			05/07/23 17:59	1
p-Isopropyltoluene	**5.7**	**B**	1.0	0.36	ug/L			05/07/23 17:59	1
sec-Butylbenzene	**3.7**	**B**	1.0	0.40	ug/L			05/07/23 17:59	1
Styrene	<0.39		1.0	0.39	ug/L			05/07/23 17:59	1
tert-Butylbenzene	**1.1**	**B**	1.0	0.40	ug/L			05/07/23 17:59	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/07/23 17:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/23 17:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/23 17:59	1
Toluene	**0.17**	**J**	0.50	0.15	ug/L			05/07/23 17:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/23 17:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/07/23 17:59	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-121 DUP
Lab Sample ID: 500-232968-3
Date Collected: 04/26/23 12:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/07/23 17:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/07/23 17:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/23 17:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/23 17:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/07/23 17:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/07/23 17:59	1
1,3,5-Trimethylbenzene	**32**	**B**	1.0	0.25	ug/L			05/07/23 17:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/07/23 17:59	1
Xylenes, Total	**95**		1.0	0.22	ug/L			05/07/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*05/07/23 17:59*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*05/07/23 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*05/07/23 17:59*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/07/23 17:59*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**160**	**B**	2.0	0.72	ug/L			05/08/23 14:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/08/23 14:47*	*2*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/08/23 14:47*	*2*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/08/23 14:47*	*2*
Toluene-d8 (Surr)	*92*		*75 - 120*		*05/08/23 14:47*	*2*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-5
Lab Sample ID: 500-232968-4
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 15:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:28	1
Bromodichloromethane	**1.1**		1.0	0.37	ug/L			05/05/23 15:28	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 15:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 15:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 15:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 15:28	1
Chloroform	**0.64**	**J**	2.0	0.37	ug/L			05/05/23 15:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 15:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 15:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 15:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 15:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 15:28	1
Dibromochloromethane	**0.98**	**J**	1.0	0.49	ug/L			05/05/23 15:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 15:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 15:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 15:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 15:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 15:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 15:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 15:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 15:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 15:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 15:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 15:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 15:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 15:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 15:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:28	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 15:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 15:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 15:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 15:28	1
Toluene	**0.15**	**J**	0.50	0.15	ug/L			05/05/23 15:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 15:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1

Client Sample ID: EB-5
Lab Sample ID: 500-232968-4
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 15:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 15:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 15:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 15:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 15:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 15:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 15:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 15:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/05/23 15:28*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 15:28*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/05/23 15:28*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorooctanoic acid (PFOA)	<0.84		2.0	0.84	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		05/05/23 05:20	05/11/23 02:31	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		05/05/23 05:20	05/11/23 02:31	1
NEtFOSA	<0.86		2.0	0.86	ng/L		05/05/23 05:20	05/11/23 02:31	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/05/23 05:20	05/11/23 02:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/05/23 05:20	05/11/23 02:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/05/23 05:20	05/11/23 02:31	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/05/23 05:20	05/11/23 02:31	1
NEtFOSE	<0.84		2.0	0.84	ng/L		05/05/23 05:20	05/11/23 02:31	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-5
Lab Sample ID: 500-232968-4
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.24		2.0	0.24	ng/L		05/05/23 05:20	05/11/23 02:31	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/05/23 05:20	05/11/23 02:31	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/05/23 05:20	05/11/23 02:31	1
DONA	<0.40		2.0	0.40	ng/L		05/05/23 05:20	05/11/23 02:31	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/05/23 05:20	05/11/23 02:31	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/05/23 05:20	05/11/23 02:31	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/05/23 05:20	05/11/23 02:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C5 PFPeA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 PFHxA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C4 PFHpA	*109*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C4 PFOA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 PFDA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 PFUnA	*119*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 PFDoA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 PFTeDA	*109*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C3 PFBS	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
18O2 PFHxS	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C4 PFOS	*117*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C8 FOSA	*124*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d3-NMeFOSAA	*150*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d5-NEtFOSAA	*140*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d-N-MeFOSA-M	*112*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d-N-EtFOSA-M	*109*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d7-N-MeFOSE-M	*114*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
d9-N-EtFOSE-M	*112*		*10 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
M2-4:2 FTS	*77*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
M2-6:2 FTS	*73*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C3 HFPO-DA	*100*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*
13C2 10:2 FTS	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:31*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		3.0	1.3	ug/L		05/11/23 09:42	05/11/23 20:39	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-5
Lab Sample ID: 500-232968-5
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.8	0.54	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorooctanoic acid (PFOA)	<0.79		1.8	0.79	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.8	0.90	ng/L		05/05/23 05:20	05/12/23 18:22	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.8	0.91	ng/L		05/05/23 05:20	05/12/23 18:22	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/05/23 05:20	05/12/23 18:22	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/05/23 05:20	05/12/23 18:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		05/05/23 05:20	05/12/23 18:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		05/05/23 05:20	05/12/23 18:22	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/05/23 05:20	05/12/23 18:22	1
NEtFOSE	<0.79		1.8	0.79	ng/L		05/05/23 05:20	05/12/23 18:22	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/12/23 18:22	1
6:2 FTS	**2.4**	**J**	4.6	2.3	ng/L		05/05/23 05:20	05/12/23 18:22	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/05/23 05:20	05/12/23 18:22	1
DONA	<0.37		1.8	0.37	ng/L		05/05/23 05:20	05/12/23 18:22	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/05/23 05:20	05/12/23 18:22	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/12/23 18:22	1
F-53B Minor	<0.30		1.8	0.30	ng/L		05/05/23 05:20	05/12/23 18:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C5 PFPeA	*109*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C2 PFHxA	*108*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C4 PFHpA	*117*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C4 PFOA	*108*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C5 PFNA	*111*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C2 PFDA	*114*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C2 PFUnA	*113*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C2 PFDoA	*112*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C2 PFTeDA	*103*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*
13C3 PFBS	*105*		*25 - 150*	*05/05/23 05:20*	*05/12/23 18:22*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-5
Lab Sample ID: 500-232968-5
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150	05/05/23 05:20	05/12/23 18:22	1
13C4 PFOS	110		25 - 150	05/05/23 05:20	05/12/23 18:22	1
13C8 FOSA	123		10 - 150	05/05/23 05:20	05/12/23 18:22	1
d3-NMeFOSAA	121		25 - 150	05/05/23 05:20	05/12/23 18:22	1
d5-NEtFOSAA	136		25 - 150	05/05/23 05:20	05/12/23 18:22	1
d-N-MeFOSA-M	114		10 - 150	05/05/23 05:20	05/12/23 18:22	1
d-N-EtFOSA-M	110		10 - 150	05/05/23 05:20	05/12/23 18:22	1
d7-N-MeFOSE-M	108		10 - 150	05/05/23 05:20	05/12/23 18:22	1
d9-N-EtFOSE-M	115		10 - 150	05/05/23 05:20	05/12/23 18:22	1
M2-4:2 FTS	72		25 - 150	05/05/23 05:20	05/12/23 18:22	1
M2-6:2 FTS	70		25 - 150	05/05/23 05:20	05/12/23 18:22	1
M2-8:2 FTS	91		25 - 150	05/05/23 05:20	05/12/23 18:22	1
13C3 HFPO-DA	115		25 - 150	05/05/23 05:20	05/12/23 18:22	1
13C2 10:2 FTS	114		25 - 150	05/05/23 05:20	05/12/23 18:22	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-15
Lab Sample ID: 500-232968-6
Date Collected: 04/25/23 09:04
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorohexanoic acid (PFHxA)	**2.5**		1.8	0.53	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluoroheptanoic acid (PFHpA)	**11**		1.8	0.23	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorooctanoic acid (PFOA)	**45**		1.8	0.77	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorononanoic acid (PFNA)	**2.7**		1.8	0.24	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorohexanesulfonic acid (PFHxS)	**5.6**		1.8	0.52	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorooctanesulfonic acid (PFOS)	**20**	**I**	1.8	0.49	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		05/05/23 05:20	05/11/23 02:52	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		05/05/23 05:20	05/11/23 02:52	1
NEtFOSA	<0.79		1.8	0.79	ng/L		05/05/23 05:20	05/11/23 02:52	1
NMeFOSA	<0.39		1.8	0.39	ng/L		05/05/23 05:20	05/11/23 02:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		05/05/23 05:20	05/11/23 02:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		05/05/23 05:20	05/11/23 02:52	1
NMeFOSE	<1.3		3.6	1.3	ng/L		05/05/23 05:20	05/11/23 02:52	1
NEtFOSE	<0.77		1.8	0.77	ng/L		05/05/23 05:20	05/11/23 02:52	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/11/23 02:52	1
6:2 FTS	<2.3		4.5	2.3	ng/L		05/05/23 05:20	05/11/23 02:52	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/05/23 05:20	05/11/23 02:52	1
DONA	<0.36		1.8	0.36	ng/L		05/05/23 05:20	05/11/23 02:52	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		05/05/23 05:20	05/11/23 02:52	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/11/23 02:52	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/11/23 02:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C5 PFPeA	*78*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C2 PFHxA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C4 PFHpA	*98*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C4 PFOA	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C2 PFDA	*111*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C2 PFUnA	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C2 PFDoA	*106*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*
13C2 PFTeDA	*106*		*25 - 150*	*05/05/23 05:20*	*05/11/23 02:52*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-15
Lab Sample ID: 500-232968-6
Date Collected: 04/25/23 09:04
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	98		25 - 150	05/05/23 05:20	05/11/23 02:52	1
18O2 PFHxS	98		25 - 150	05/05/23 05:20	05/11/23 02:52	1
13C4 PFOS	103		25 - 150	05/05/23 05:20	05/11/23 02:52	1
13C8 FOSA	130		10 - 150	05/05/23 05:20	05/11/23 02:52	1
d3-NMeFOSAA	144		25 - 150	05/05/23 05:20	05/11/23 02:52	1
d5-NEtFOSAA	145		25 - 150	05/05/23 05:20	05/11/23 02:52	1
d-N-MeFOSA-M	105		10 - 150	05/05/23 05:20	05/11/23 02:52	1
d-N-EtFOSA-M	103		10 - 150	05/05/23 05:20	05/11/23 02:52	1
d7-N-MeFOSE-M	99		10 - 150	05/05/23 05:20	05/11/23 02:52	1
d9-N-EtFOSE-M	101		10 - 150	05/05/23 05:20	05/11/23 02:52	1
M2-4:2 FTS	120		25 - 150	05/05/23 05:20	05/11/23 02:52	1
M2-6:2 FTS	139		25 - 150	05/05/23 05:20	05/11/23 02:52	1
M2-8:2 FTS	122		25 - 150	05/05/23 05:20	05/11/23 02:52	1
13C3 HFPO-DA	93		25 - 150	05/05/23 05:20	05/11/23 02:52	1
13C2 10:2 FTS	104		25 - 150	05/05/23 05:20	05/11/23 02:52	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-235
Lab Sample ID: 500-232968-7
Date Collected: 04/25/23 10:14
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.2**		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluoropentanoic acid (PFPeA)	**0.68**	**J**	1.9	0.46	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorohexanoic acid (PFHxA)	**2.2**		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluoroheptanoic acid (PFHpA)	**2.0**		1.9	0.24	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorooctanoic acid (PFOA)	**46**		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorobutanesulfonic acid (PFBS)	**3.6**		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorohexanesulfonic acid (PFHxS)	**1.5**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 03:02	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 03:02	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 03:02	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 03:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:20	05/11/23 03:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:20	05/11/23 03:02	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 03:02	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 03:02	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:02	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/05/23 05:20	05/11/23 03:02	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/05/23 05:20	05/11/23 03:02	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 03:02	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 03:02	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:02	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 03:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C5 PFPeA	*92*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C2 PFHxA	*93*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C4 PFHpA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C4 PFOA	*94*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C5 PFNA	*93*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C2 PFDA	*87*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C2 PFUnA	*69*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C2 PFDoA	*59*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*
13C2 PFTeDA	*67*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:02*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-235
Lab Sample ID: 500-232968-7
Date Collected: 04/25/23 10:14
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	88		25 - 150	05/05/23 05:20	05/11/23 03:02	1
18O2 PFHxS	93		25 - 150	05/05/23 05:20	05/11/23 03:02	1
13C4 PFOS	94		25 - 150	05/05/23 05:20	05/11/23 03:02	1
13C8 FOSA	111		10 - 150	05/05/23 05:20	05/11/23 03:02	1
d3-NMeFOSAA	87		25 - 150	05/05/23 05:20	05/11/23 03:02	1
d5-NEtFOSAA	82		25 - 150	05/05/23 05:20	05/11/23 03:02	1
d-N-MeFOSA-M	65		10 - 150	05/05/23 05:20	05/11/23 03:02	1
d-N-EtFOSA-M	57		10 - 150	05/05/23 05:20	05/11/23 03:02	1
d7-N-MeFOSE-M	55		10 - 150	05/05/23 05:20	05/11/23 03:02	1
d9-N-EtFOSE-M	57		10 - 150	05/05/23 05:20	05/11/23 03:02	1
M2-4:2 FTS	66		25 - 150	05/05/23 05:20	05/11/23 03:02	1
M2-6:2 FTS	65		25 - 150	05/05/23 05:20	05/11/23 03:02	1
M2-8:2 FTS	67		25 - 150	05/05/23 05:20	05/11/23 03:02	1
13C3 HFPO-DA	87		25 - 150	05/05/23 05:20	05/11/23 03:02	1
13C2 10:2 FTS	54		25 - 150	05/05/23 05:20	05/11/23 03:02	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-236
Lab Sample ID: 500-232968-8
Date Collected: 04/25/23 11:19
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**12**		4.6	2.2	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluoropentanoic acid (PFPeA)	**3.8**		1.8	0.45	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorohexanoic acid (PFHxA)	**5.8**		1.8	0.53	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluoroheptanoic acid (PFHpA)	**6.2**		1.8	0.23	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorooctanoic acid (PFOA)	**90**		1.8	0.78	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorobutanesulfonic acid (PFBS)	**2.6**		1.8	0.18	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorohexanesulfonic acid (PFHxS)	**1.1**	**J**	1.8	0.53	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorooctanesulfonic acid (PFOS)	**1.4**	**J I**	1.8	0.50	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		05/05/23 05:20	05/11/23 03:12	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		05/05/23 05:20	05/11/23 03:12	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/05/23 05:20	05/11/23 03:12	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/05/23 05:20	05/11/23 03:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		05/05/23 05:20	05/11/23 03:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		05/05/23 05:20	05/11/23 03:12	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/05/23 05:20	05/11/23 03:12	1
NEtFOSE	<0.78		1.8	0.78	ng/L		05/05/23 05:20	05/11/23 03:12	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/11/23 03:12	1
6:2 FTS	<2.3		4.6	2.3	ng/L		05/05/23 05:20	05/11/23 03:12	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/05/23 05:20	05/11/23 03:12	1
DONA	<0.37		1.8	0.37	ng/L		05/05/23 05:20	05/11/23 03:12	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/05/23 05:20	05/11/23 03:12	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/05/23 05:20	05/11/23 03:12	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/05/23 05:20	05/11/23 03:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C5 PFPeA	*93*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C2 PFHxA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C4 PFHpA	*100*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C4 PFOA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C5 PFNA	*97*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C2 PFDA	*96*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C2 PFUnA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*
13C2 PFDoA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:12*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-236
Lab Sample ID: 500-232968-8
Date Collected: 04/25/23 11:19
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	100		25 - 150	05/05/23 05:20	05/11/23 03:12	1
13C3 PFBS	96		25 - 150	05/05/23 05:20	05/11/23 03:12	1
18O2 PFHxS	99		25 - 150	05/05/23 05:20	05/11/23 03:12	1
13C4 PFOS	105		25 - 150	05/05/23 05:20	05/11/23 03:12	1
13C8 FOSA	116		10 - 150	05/05/23 05:20	05/11/23 03:12	1
d3-NMeFOSAA	128		25 - 150	05/05/23 05:20	05/11/23 03:12	1
d5-NEtFOSAA	128		25 - 150	05/05/23 05:20	05/11/23 03:12	1
d-N-MeFOSA-M	105		10 - 150	05/05/23 05:20	05/11/23 03:12	1
d-N-EtFOSA-M	94		10 - 150	05/05/23 05:20	05/11/23 03:12	1
d7-N-MeFOSE-M	94		10 - 150	05/05/23 05:20	05/11/23 03:12	1
d9-N-EtFOSE-M	94		10 - 150	05/05/23 05:20	05/11/23 03:12	1
M2-4:2 FTS	91		25 - 150	05/05/23 05:20	05/11/23 03:12	1
M2-6:2 FTS	77		25 - 150	05/05/23 05:20	05/11/23 03:12	1
M2-8:2 FTS	76		25 - 150	05/05/23 05:20	05/11/23 03:12	1
13C3 HFPO-DA	91		25 - 150	05/05/23 05:20	05/11/23 03:12	1
13C2 10:2 FTS	95		25 - 150	05/05/23 05:20	05/11/23 03:12	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226
Lab Sample ID: 500-232968-9
Date Collected: 04/25/23 12:50
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluoropentanoic acid (PFPeA)	**1.3**	**J**	1.9	0.47	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorohexanoic acid (PFHxA)	**1.5**	**J**	1.9	0.56	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluoroheptanoic acid (PFHpA)	**1.0**	**J**	1.9	0.24	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorooctanoic acid (PFOA)	**3.4**		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorononanoic acid (PFNA)	**0.51**	**J**	1.9	0.26	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorodecanoic acid (PFDA)	**0.31**	**J**	1.9	0.30	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 03:22	1
Perfluorooctanesulfonamide (FOSA)	**1.0**	**J**	1.9	0.94	ng/L		05/05/23 05:20	05/11/23 03:22	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/05/23 05:20	05/11/23 03:22	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 03:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		05/05/23 05:20	05/11/23 03:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		05/05/23 05:20	05/11/23 03:22	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 03:22	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 03:22	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:22	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/05/23 05:20	05/11/23 03:22	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/05/23 05:20	05/11/23 03:22	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 03:22	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 03:22	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:22	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 03:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C5 PFPeA	*99*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C2 PFHxA	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C4 PFHpA	*109*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C4 PFOA	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C2 PFDA	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C2 PFUnA	*111*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C2 PFDoA	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C2 PFTeDA	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*
13C3 PFBS	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:22*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226
Lab Sample ID: 500-232968-9
Date Collected: 04/25/23 12:50
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	111		25 - 150	05/05/23 05:20	05/11/23 03:22	1
13C4 PFOS	118		25 - 150	05/05/23 05:20	05/11/23 03:22	1
13C8 FOSA	129		10 - 150	05/05/23 05:20	05/11/23 03:22	1
d3-NMeFOSAA	149		25 - 150	05/05/23 05:20	05/11/23 03:22	1
d5-NEtFOSAA	147		25 - 150	05/05/23 05:20	05/11/23 03:22	1
d-N-MeFOSA-M	118		10 - 150	05/05/23 05:20	05/11/23 03:22	1
d-N-EtFOSA-M	111		10 - 150	05/05/23 05:20	05/11/23 03:22	1
d7-N-MeFOSE-M	115		10 - 150	05/05/23 05:20	05/11/23 03:22	1
d9-N-EtFOSE-M	110		10 - 150	05/05/23 05:20	05/11/23 03:22	1
M2-4:2 FTS	77		25 - 150	05/05/23 05:20	05/11/23 03:22	1
M2-6:2 FTS	76		25 - 150	05/05/23 05:20	05/11/23 03:22	1
M2-8:2 FTS	93		25 - 150	05/05/23 05:20	05/11/23 03:22	1
13C3 HFPO-DA	101		25 - 150	05/05/23 05:20	05/11/23 03:22	1
13C2 10:2 FTS	109		25 - 150	05/05/23 05:20	05/11/23 03:22	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226 DUP
Lab Sample ID: 500-232968-10
Date Collected: 04/25/23 12:55
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluoropentanoic acid (PFPeA)	**1.4**	**J**	1.9	0.47	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorohexanoic acid (PFHxA)	**1.5**	**J**	1.9	0.56	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluoroheptanoic acid (PFHpA)	**1.1**	**J**	1.9	0.24	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorooctanoic acid (PFOA)	**3.7**		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorononanoic acid (PFNA)	**0.52**	**J**	1.9	0.26	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		05/05/23 05:20	05/11/23 03:53	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		05/05/23 05:20	05/11/23 03:53	1
NEtFOSA	<0.84		1.9	0.84	ng/L		05/05/23 05:20	05/11/23 03:53	1
NMeFOSA	<0.42		1.9	0.42	ng/L		05/05/23 05:20	05/11/23 03:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		05/05/23 05:20	05/11/23 03:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		05/05/23 05:20	05/11/23 03:53	1
NMeFOSE	<1.4		3.9	1.4	ng/L		05/05/23 05:20	05/11/23 03:53	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 03:53	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:53	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/05/23 05:20	05/11/23 03:53	1
8:2 FTS	<0.45		1.9	0.45	ng/L		05/05/23 05:20	05/11/23 03:53	1
DONA	<0.39		1.9	0.39	ng/L		05/05/23 05:20	05/11/23 03:53	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		05/05/23 05:20	05/11/23 03:53	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 03:53	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 03:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C5 PFPeA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C4 PFHpA	*107*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C4 PFOA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C2 PFDA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C2 PFUnA	*115*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C2 PFDoA	*114*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C2 PFTeDA	*118*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*
13C3 PFBS	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 03:53*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226 DUP
Lab Sample ID: 500-232968-10
Date Collected: 04/25/23 12:55
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	109		25 - 150	05/05/23 05:20	05/11/23 03:53	1
13C4 PFOS	111		25 - 150	05/05/23 05:20	05/11/23 03:53	1
13C8 FOSA	130		10 - 150	05/05/23 05:20	05/11/23 03:53	1
d3-NMeFOSAA	147		25 - 150	05/05/23 05:20	05/11/23 03:53	1
d5-NEtFOSAA	154	*5+	25 - 150	05/05/23 05:20	05/11/23 03:53	1
d-N-MeFOSA-M	122		10 - 150	05/05/23 05:20	05/11/23 03:53	1
d-N-EtFOSA-M	116		10 - 150	05/05/23 05:20	05/11/23 03:53	1
d7-N-MeFOSE-M	112		10 - 150	05/05/23 05:20	05/11/23 03:53	1
d9-N-EtFOSE-M	110		10 - 150	05/05/23 05:20	05/11/23 03:53	1
M2-4:2 FTS	78		25 - 150	05/05/23 05:20	05/11/23 03:53	1
M2-6:2 FTS	78		25 - 150	05/05/23 05:20	05/11/23 03:53	1
M2-8:2 FTS	82		25 - 150	05/05/23 05:20	05/11/23 03:53	1
13C3 HFPO-DA	98		25 - 150	05/05/23 05:20	05/11/23 03:53	1
13C2 10:2 FTS	109		25 - 150	05/05/23 05:20	05/11/23 03:53	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226
Lab Sample ID: 500-232968-11
Date Collected: 04/25/23 13:53
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**14**		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluoropentanoic acid (PFPeA)	**7.1**		1.9	0.46	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorohexanoic acid (PFHxA)	**12**		1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluoroheptanoic acid (PFHpA)	**13**		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorooctanoic acid (PFOA)	**180**		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorobutanesulfonic acid (PFBS)	**2.2**		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorohexanesulfonic acid (PFHxS)	**0.80**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/05/23 05:20	05/11/23 04:03	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 04:03	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 04:03	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/05/23 05:20	05/11/23 04:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:20	05/11/23 04:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:20	05/11/23 04:03	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 04:03	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 04:03	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:03	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 04:03	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/05/23 05:20	05/11/23 04:03	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 04:03	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 04:03	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:03	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*70*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C5 PFPeA	*89*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C2 PFHxA	*92*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C4 PFHpA	*94*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C5 PFNA	*89*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C2 PFDA	*81*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C2 PFUnA	*75*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C2 PFDoA	*58*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*
13C2 PFTeDA	*57*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:03*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226
Lab Sample ID: 500-232968-11
Date Collected: 04/25/23 13:53
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	92		25 - 150	05/05/23 05:20	05/11/23 04:03	1
18O2 PFHxS	90		25 - 150	05/05/23 05:20	05/11/23 04:03	1
13C4 PFOS	87		25 - 150	05/05/23 05:20	05/11/23 04:03	1
13C8 FOSA	95		10 - 150	05/05/23 05:20	05/11/23 04:03	1
d3-NMeFOSAA	98		25 - 150	05/05/23 05:20	05/11/23 04:03	1
d5-NEtFOSAA	90		25 - 150	05/05/23 05:20	05/11/23 04:03	1
d-N-MeFOSA-M	58		10 - 150	05/05/23 05:20	05/11/23 04:03	1
d-N-EtFOSA-M	56		10 - 150	05/05/23 05:20	05/11/23 04:03	1
d7-N-MeFOSE-M	53		10 - 150	05/05/23 05:20	05/11/23 04:03	1
d9-N-EtFOSE-M	57		10 - 150	05/05/23 05:20	05/11/23 04:03	1
M2-4:2 FTS	86		25 - 150	05/05/23 05:20	05/11/23 04:03	1
M2-6:2 FTS	76		25 - 150	05/05/23 05:20	05/11/23 04:03	1
M2-8:2 FTS	64		25 - 150	05/05/23 05:20	05/11/23 04:03	1
13C3 HFPO-DA	82		25 - 150	05/05/23 05:20	05/11/23 04:03	1
13C2 10:2 FTS	56		25 - 150	05/05/23 05:20	05/11/23 04:03	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226 DUP
Lab Sample ID: 500-232968-12

Date Collected: 04/25/23 13:58
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**15**		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluoropentanoic acid (PFPeA)	**7.9**		1.9	0.46	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorohexanoic acid (PFHxA)	**11**		1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluoroheptanoic acid (PFHpA)	**14**		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorooctanoic acid (PFOA)	**190**		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorobutanesulfonic acid (PFBS)	**2.0**		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorohexanesulfonic acid (PFHxS)	**0.87**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/05/23 05:20	05/11/23 04:13	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 04:13	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/05/23 05:20	05/11/23 04:13	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/05/23 05:20	05/11/23 04:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:20	05/11/23 04:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:20	05/11/23 04:13	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 04:13	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/05/23 05:20	05/11/23 04:13	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:13	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 04:13	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/05/23 05:20	05/11/23 04:13	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 04:13	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 04:13	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:13	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C5 PFPeA	*78*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C2 PFHxA	*84*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C4 PFHpA	*83*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C4 PFOA	*87*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C5 PFNA	*80*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C2 PFDA	*74*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C2 PFUnA	*61*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C2 PFDoA	*50*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*
13C2 PFTeDA	*51*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:13*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226 DUP
Lab Sample ID: 500-232968-12
Date Collected: 04/25/23 13:58
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	82		25 - 150	05/05/23 05:20	05/11/23 04:13	1
18O2 PFHxS	79		25 - 150	05/05/23 05:20	05/11/23 04:13	1
13C4 PFOS	75		25 - 150	05/05/23 05:20	05/11/23 04:13	1
13C8 FOSA	82		10 - 150	05/05/23 05:20	05/11/23 04:13	1
d3-NMeFOSAA	81		25 - 150	05/05/23 05:20	05/11/23 04:13	1
d5-NEtFOSAA	71		25 - 150	05/05/23 05:20	05/11/23 04:13	1
d-N-MeFOSA-M	51		10 - 150	05/05/23 05:20	05/11/23 04:13	1
d-N-EtFOSA-M	46		10 - 150	05/05/23 05:20	05/11/23 04:13	1
d7-N-MeFOSE-M	47		10 - 150	05/05/23 05:20	05/11/23 04:13	1
d9-N-EtFOSE-M	46		10 - 150	05/05/23 05:20	05/11/23 04:13	1
M2-4:2 FTS	65		25 - 150	05/05/23 05:20	05/11/23 04:13	1
M2-6:2 FTS	57		25 - 150	05/05/23 05:20	05/11/23 04:13	1
M2-8:2 FTS	56		25 - 150	05/05/23 05:20	05/11/23 04:13	1
13C3 HFPO-DA	76		25 - 150	05/05/23 05:20	05/11/23 04:13	1
13C2 10:2 FTS	45		25 - 150	05/05/23 05:20	05/11/23 04:13	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-16
Lab Sample ID: 500-232968-13
Date Collected: 04/25/23 15:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.7**		4.8	2.3	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluoropentanoic acid (PFPeA)	**3.6**		1.9	0.47	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorohexanoic acid (PFHxA)	**14**		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluoroheptanoic acid (PFHpA)	**36**		1.9	0.24	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorononanoic acid (PFNA)	**0.47**	**J**	1.9	0.26	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorobutanesulfonic acid (PFBS)	**0.79**	**J**	1.9	0.19	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorohexanesulfonic acid (PFHxS)	**1.8**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 04:23	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 04:23	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/05/23 05:20	05/11/23 04:23	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 04:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		05/05/23 05:20	05/11/23 04:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		05/05/23 05:20	05/11/23 04:23	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 04:23	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 04:23	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:23	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/05/23 05:20	05/11/23 04:23	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/05/23 05:20	05/11/23 04:23	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 04:23	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 04:23	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:23	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C5 PFPeA	*72*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C2 PFHxA	*84*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C4 PFHpA	*92*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C5 PFNA	*93*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C2 PFDA	*94*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C2 PFUnA	*89*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C2 PFDoA	*89*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C2 PFTeDA	*95*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
13C3 PFBS	*81*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*
18O2 PFHxS	*90*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:23*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-16
Lab Sample ID: 500-232968-13
Date Collected: 04/25/23 15:15
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	91		25 - 150	05/05/23 05:20	05/11/23 04:23	1
13C8 FOSA	109		10 - 150	05/05/23 05:20	05/11/23 04:23	1
d3-NMeFOSAA	122		25 - 150	05/05/23 05:20	05/11/23 04:23	1
d5-NEtFOSAA	114		25 - 150	05/05/23 05:20	05/11/23 04:23	1
d-N-MeFOSA-M	93		10 - 150	05/05/23 05:20	05/11/23 04:23	1
d-N-EtFOSA-M	89		10 - 150	05/05/23 05:20	05/11/23 04:23	1
d7-N-MeFOSE-M	87		10 - 150	05/05/23 05:20	05/11/23 04:23	1
d9-N-EtFOSE-M	88		10 - 150	05/05/23 05:20	05/11/23 04:23	1
M2-4:2 FTS	90		25 - 150	05/05/23 05:20	05/11/23 04:23	1
M2-6:2 FTS	82		25 - 150	05/05/23 05:20	05/11/23 04:23	1
M2-8:2 FTS	73		25 - 150	05/05/23 05:20	05/11/23 04:23	1
13C3 HFPO-DA	81		25 - 150	05/05/23 05:20	05/11/23 04:23	1
13C2 10:2 FTS	82		25 - 150	05/05/23 05:20	05/11/23 04:23	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	470		9.5	4.1	ng/L		05/05/23 05:20	05/11/23 17:43	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	102		25 - 150	05/05/23 05:20	05/11/23 17:43	5

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-16A
Lab Sample ID: 500-232968-14

Date Collected: 04/25/23 16:02
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluoropentanoic acid (PFPeA)	**0.90**	**J**	1.9	0.46	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorohexanoic acid (PFHxA)	**1.4**	**J**	1.9	0.55	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluoroheptanoic acid (PFHpA)	**1.2**	**J**	1.9	0.24	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorooctanoic acid (PFOA)	**8.0**		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorohexanesulfonic acid (PFHxS)	**0.66**	**J**	1.9	0.54	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/05/23 05:20	05/11/23 04:34	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 04:34	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/05/23 05:20	05/11/23 04:34	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 04:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/05/23 05:20	05/11/23 04:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/05/23 05:20	05/11/23 04:34	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 04:34	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 04:34	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:34	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/05/23 05:20	05/11/23 04:34	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/05/23 05:20	05/11/23 04:34	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 04:34	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 04:34	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:34	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C5 PFPeA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C2 PFHxA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C4 PFHpA	*111*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C5 PFNA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C2 PFDA	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C2 PFUnA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C2 PFDoA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C2 PFTeDA	*107*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*
13C3 PFBS	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:34*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-16A
Lab Sample ID: 500-232968-14
Date Collected: 04/25/23 16:02
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150	05/05/23 05:20	05/11/23 04:34	1
13C4 PFOS	115		25 - 150	05/05/23 05:20	05/11/23 04:34	1
13C8 FOSA	134		10 - 150	05/05/23 05:20	05/11/23 04:34	1
d3-NMeFOSAA	138		25 - 150	05/05/23 05:20	05/11/23 04:34	1
d5-NEtFOSAA	136		25 - 150	05/05/23 05:20	05/11/23 04:34	1
d-N-MeFOSA-M	113		10 - 150	05/05/23 05:20	05/11/23 04:34	1
d-N-EtFOSA-M	106		10 - 150	05/05/23 05:20	05/11/23 04:34	1
d7-N-MeFOSE-M	104		10 - 150	05/05/23 05:20	05/11/23 04:34	1
d9-N-EtFOSE-M	103		10 - 150	05/05/23 05:20	05/11/23 04:34	1
M2-4:2 FTS	79		25 - 150	05/05/23 05:20	05/11/23 04:34	1
M2-6:2 FTS	75		25 - 150	05/05/23 05:20	05/11/23 04:34	1
M2-8:2 FTS	89		25 - 150	05/05/23 05:20	05/11/23 04:34	1
13C3 HFPO-DA	103		25 - 150	05/05/23 05:20	05/11/23 04:34	1
13C2 10:2 FTS	93		25 - 150	05/05/23 05:20	05/11/23 04:34	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-2
Lab Sample ID: 500-232968-15
Date Collected: 04/25/23 15:50
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		05/05/23 05:20	05/11/23 04:44	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		05/05/23 05:20	05/11/23 04:44	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/05/23 05:20	05/11/23 04:44	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/05/23 05:20	05/11/23 04:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		05/05/23 05:20	05/11/23 04:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		05/05/23 05:20	05/11/23 04:44	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/05/23 05:20	05/11/23 04:44	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/05/23 05:20	05/11/23 04:44	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:44	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/05/23 05:20	05/11/23 04:44	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/05/23 05:20	05/11/23 04:44	1
DONA	<0.38		1.9	0.38	ng/L		05/05/23 05:20	05/11/23 04:44	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/05/23 05:20	05/11/23 04:44	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/05/23 05:20	05/11/23 04:44	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/05/23 05:20	05/11/23 04:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*106*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C5 PFPeA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C2 PFHxA	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C4 PFHpA	*109*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C4 PFOA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C2 PFDA	*115*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C2 PFUnA	*118*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C2 PFDoA	*116*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C2 PFTeDA	*123*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*
13C3 PFBS	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 04:44*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-2
Lab Sample ID: 500-232968-15
Date Collected: 04/25/23 15:50
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	111		25 - 150	05/05/23 05:20	05/11/23 04:44	1
13C4 PFOS	121		25 - 150	05/05/23 05:20	05/11/23 04:44	1
13C8 FOSA	133		10 - 150	05/05/23 05:20	05/11/23 04:44	1
d3-NMeFOSAA	152	*5+	25 - 150	05/05/23 05:20	05/11/23 04:44	1
d5-NEtFOSAA	161	*5+	25 - 150	05/05/23 05:20	05/11/23 04:44	1
d-N-MeFOSA-M	105		10 - 150	05/05/23 05:20	05/11/23 04:44	1
d-N-EtFOSA-M	107		10 - 150	05/05/23 05:20	05/11/23 04:44	1
d7-N-MeFOSE-M	115		10 - 150	05/05/23 05:20	05/11/23 04:44	1
d9-N-EtFOSE-M	117		10 - 150	05/05/23 05:20	05/11/23 04:44	1
M2-4:2 FTS	74		25 - 150	05/05/23 05:20	05/11/23 04:44	1
M2-6:2 FTS	77		25 - 150	05/05/23 05:20	05/11/23 04:44	1
M2-8:2 FTS	87		25 - 150	05/05/23 05:20	05/11/23 04:44	1
13C3 HFPO-DA	99		25 - 150	05/05/23 05:20	05/11/23 04:44	1
13C2 10:2 FTS	115		25 - 150	05/05/23 05:20	05/11/23 04:44	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-2
Date Collected: 04/25/23 16:23
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-16
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		05/07/23 13:33	05/11/23 17:12	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		05/07/23 13:33	05/11/23 17:12	1
NEtFOSA	<0.79		1.8	0.79	ng/L		05/07/23 13:33	05/11/23 17:12	1
NMeFOSA	<0.39		1.8	0.39	ng/L		05/07/23 13:33	05/11/23 17:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		05/07/23 13:33	05/11/23 17:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		05/07/23 13:33	05/11/23 17:12	1
NMeFOSE	<1.3		3.6	1.3	ng/L		05/07/23 13:33	05/11/23 17:12	1
NEtFOSE	<0.77		1.8	0.77	ng/L		05/07/23 13:33	05/11/23 17:12	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/07/23 13:33	05/11/23 17:12	1
6:2 FTS	<2.3		4.5	2.3	ng/L		05/07/23 13:33	05/11/23 17:12	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/07/23 13:33	05/11/23 17:12	1
DONA	<0.36		1.8	0.36	ng/L		05/07/23 13:33	05/11/23 17:12	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		05/07/23 13:33	05/11/23 17:12	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/07/23 13:33	05/11/23 17:12	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/07/23 13:33	05/11/23 17:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*105*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C5 PFPeA	*103*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C4 PFHpA	*111*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C5 PFNA	*106*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C2 PFDA	*109*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C2 PFUnA	*117*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C2 PFDoA	*122*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C2 PFTeDA	*101*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*
13C3 PFBS	*104*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:12*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-2
Lab Sample ID: 500-232968-16
Date Collected: 04/25/23 16:23
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	105		25 - 150	05/07/23 13:33	05/11/23 17:12	1
13C4 PFOS	108		25 - 150	05/07/23 13:33	05/11/23 17:12	1
13C8 FOSA	122		10 - 150	05/07/23 13:33	05/11/23 17:12	1
d3-NMeFOSAA	131		25 - 150	05/07/23 13:33	05/11/23 17:12	1
d5-NEtFOSAA	150		25 - 150	05/07/23 13:33	05/11/23 17:12	1
d-N-MeFOSA-M	92		10 - 150	05/07/23 13:33	05/11/23 17:12	1
d-N-EtFOSA-M	102		10 - 150	05/07/23 13:33	05/11/23 17:12	1
d7-N-MeFOSE-M	104		10 - 150	05/07/23 13:33	05/11/23 17:12	1
d9-N-EtFOSE-M	110		10 - 150	05/07/23 13:33	05/11/23 17:12	1
M2-4:2 FTS	77		25 - 150	05/07/23 13:33	05/11/23 17:12	1
M2-6:2 FTS	81		25 - 150	05/07/23 13:33	05/11/23 17:12	1
M2-8:2 FTS	78		25 - 150	05/07/23 13:33	05/11/23 17:12	1
13C3 HFPO-DA	105		25 - 150	05/07/23 13:33	05/11/23 17:12	1
13C2 10:2 FTS	146		25 - 150	05/07/23 13:33	05/11/23 17:12	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-233
Lab Sample ID: 500-232968-17
Date Collected: 04/25/23 07:55
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.43	0.072	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1221	<0.22		0.43	0.22	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1232	<0.22		0.43	0.22	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1242	<0.22		0.43	0.22	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1248	<0.22		0.43	0.22	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1254	<0.22		0.43	0.22	ug/L		05/04/23 13:41	05/05/23 14:47	1
PCB-1260	<0.076		0.43	0.076	ug/L		05/04/23 13:41	05/05/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 120*	*05/04/23 13:41*	*05/05/23 14:47*	*1*
DCB Decachlorobiphenyl	*82*		*30 - 140*	*05/04/23 13:41*	*05/05/23 14:47*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-60
Lab Sample ID: 500-232968-18
Date Collected: 04/25/23 08:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.082		0.49	0.082	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1221	<0.24		0.49	0.24	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1232	<0.24		0.49	0.24	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1242	<0.24		0.49	0.24	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1248	<0.24		0.49	0.24	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1254	<0.24		0.49	0.24	ug/L		05/04/23 13:41	05/05/23 15:00	1
PCB-1260	<0.085		0.49	0.085	ug/L		05/04/23 13:41	05/05/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 120*	*05/04/23 13:41*	*05/05/23 15:00*	*1*
DCB Decachlorobiphenyl	*81*		*30 - 140*	*05/04/23 13:41*	*05/05/23 15:00*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**62**	**J**	100	25	ug/L		05/11/23 09:42	05/11/23 20:43	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-67
Lab Sample ID: 500-232968-19
Date Collected: 04/25/23 09:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.070		0.42	0.070	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1221	<0.21		0.42	0.21	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1232	<0.21		0.42	0.21	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1242	<0.21		0.42	0.21	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1248	<0.21		0.42	0.21	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1254	<0.21		0.42	0.21	ug/L		05/04/23 13:41	05/05/23 15:13	1
PCB-1260	**0.29**	**J**	0.42	0.073	ug/L		05/04/23 13:41	05/05/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 120*	*05/04/23 13:41*	*05/05/23 15:13*	*1*
DCB Decachlorobiphenyl	*88*		*30 - 140*	*05/04/23 13:41*	*05/05/23 15:13*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19
Lab Sample ID: 500-232968-20
Date Collected: 04/25/23 10:40
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 17:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 17:27	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 17:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 17:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 17:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 17:27	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 17:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 17:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 17:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 17:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 17:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 17:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 17:27	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 17:27	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 17:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 17:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 17:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 17:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 17:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 17:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 17:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 17:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 17:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 17:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 17:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 17:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 17:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:27	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 17:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:27	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 17:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 17:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 17:27	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 17:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 17:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19
Lab Sample ID: 500-232968-20
Date Collected: 04/25/23 10:40
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 17:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 17:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 17:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 17:27	1
Trichloroethene	**3.5**		0.50	0.16	ug/L			05/05/23 17:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 17:27	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 17:27	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 17:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*05/05/23 17:27*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/05/23 17:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*05/05/23 17:27*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 17:27*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.073		0.44	0.073	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1221	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1232	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1242	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1248	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1254	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:26	1
PCB-1260	**0.14**	**J**	0.44	0.076	ug/L		05/04/23 13:41	05/05/23 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*30 - 120*	*05/04/23 13:41*	*05/05/23 15:26*	*1*
DCB Decachlorobiphenyl	*99*		*30 - 140*	*05/04/23 13:41*	*05/05/23 15:26*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**160**		5.0	1.1	ug/L		05/11/23 09:42	05/11/23 20:46	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-37
Lab Sample ID: 500-232968-21
Date Collected: 04/25/23 11:53
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 17:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 17:51	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 17:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 17:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 17:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 17:51	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 17:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 17:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 17:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 17:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 17:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 17:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 17:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 17:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 17:51	1
1,2-Dichlorobenzene	**7.6**		1.0	0.33	ug/L			05/05/23 17:51	1
1,3-Dichlorobenzene	**1.9**		1.0	0.40	ug/L			05/05/23 17:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 17:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 17:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 17:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 17:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 17:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 17:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 17:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 17:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 17:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 17:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 17:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:51	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 17:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 17:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 17:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 17:51	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 17:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 17:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-37
Lab Sample ID: 500-232968-21
Date Collected: 04/25/23 11:53
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	**7.5**		1.0	0.46	ug/L			05/05/23 17:51	1
1,2,4-Trichlorobenzene	**15**		1.0	0.34	ug/L			05/05/23 17:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 17:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 17:51	1
Trichloroethene	**10**		0.50	0.16	ug/L			05/05/23 17:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 17:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 17:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 17:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/05/23 17:51*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*05/05/23 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/05/23 17:51*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 17:51*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.071		0.43	0.071	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1221	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1232	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1242	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1248	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1254	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 15:39	1
PCB-1260	**2.6**		0.43	0.075	ug/L		05/04/23 13:41	05/05/23 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 120*	*05/04/23 13:41*	*05/05/23 15:39*	*1*
DCB Decachlorobiphenyl	*81*		*30 - 140*	*05/04/23 13:41*	*05/05/23 15:39*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-6
Lab Sample ID: 500-232968-22
Date Collected: 04/25/23 13:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.073		0.44	0.073	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1221	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1232	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1242	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1248	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1254	<0.22		0.44	0.22	ug/L		05/04/23 13:41	05/05/23 15:52	1
PCB-1260	<0.076		0.44	0.076	ug/L		05/04/23 13:41	05/05/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 120*	*05/04/23 13:41*	*05/05/23 15:52*	*1*
DCB Decachlorobiphenyl	*66*		*30 - 140*	*05/04/23 13:41*	*05/05/23 15:52*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		05/11/23 09:42	05/11/23 20:56	1
Lead	<0.19		0.50	0.19	ug/L		05/11/23 09:42	05/11/23 20:56	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-8
Lab Sample ID: 500-232968-23
Date Collected: 04/25/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 18:15	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 18:15	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 18:15	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 18:15	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 18:15	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 18:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 18:15	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 18:15	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 18:15	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 18:15	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 18:15	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 18:15	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 18:15	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 18:15	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 18:15	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 18:15	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 18:15	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:15	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 18:15	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 18:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 18:15	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 18:15	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 18:15	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 18:15	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 18:15	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 18:15	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 18:15	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 18:15	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 18:15	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:15	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 18:15	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:15	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 18:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 18:15	1
Tetrachloroethene	**1.8**		1.0	0.37	ug/L			05/05/23 18:15	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 18:15	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 18:15	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-8
Lab Sample ID: 500-232968-23
Date Collected: 04/25/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 18:15	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 18:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 18:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 18:15	1
Trichloroethene	**0.19**	**J**	0.50	0.16	ug/L			05/05/23 18:15	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 18:15	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 18:15	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:15	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 18:15	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 18:15	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*05/05/23 18:15*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/05/23 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*05/05/23 18:15*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 18:15*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-232968-24

Date Collected: 04/25/23 14:55
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 18:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 18:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 18:39	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 18:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 18:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 18:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 18:39	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 18:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 18:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 18:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 18:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 18:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 18:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 18:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 18:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 18:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 18:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 18:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 18:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 18:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 18:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 18:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 18:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 18:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 18:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 18:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 18:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 18:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:39	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 18:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 18:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 18:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 18:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 18:39	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 18:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 18:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-232968-24
Date Collected: 04/25/23 14:55
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 18:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 18:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 18:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 18:39	1
Trichloroethene	**0.48**	**J**	0.50	0.16	ug/L			05/05/23 18:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 18:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 18:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 18:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 18:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 18:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 18:39*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*05/05/23 18:39*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/05/23 18:39*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-16
Lab Sample ID: 500-232968-25
Date Collected: 04/25/23 15:50
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 19:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 19:02	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 19:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 19:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 19:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 19:02	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 19:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 19:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 19:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 19:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 19:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 19:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 19:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 19:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 19:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 19:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 19:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 19:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 19:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 19:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 19:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 19:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 19:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 19:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 19:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 19:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 19:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:02	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 19:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 19:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 19:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 19:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 19:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 19:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-16
Lab Sample ID: 500-232968-25
Date Collected: 04/25/23 15:50
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 19:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 19:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 19:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 19:02	1
Trichloroethene	**0.68**		0.50	0.16	ug/L			05/05/23 19:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 19:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 19:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 19:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*05/05/23 19:02*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/05/23 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 19:02*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 19:02*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-03
Lab Sample ID: 500-232968-26
Date Collected: 04/25/23 16:45
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 15:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:52	1
Bromodichloromethane	**1.1**		1.0	0.37	ug/L			05/05/23 15:52	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 15:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 15:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 15:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 15:52	1
Chloroform	**0.83**	**J**	2.0	0.37	ug/L			05/05/23 15:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 15:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 15:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 15:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 15:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 15:52	1
Dibromochloromethane	**0.91**	**J**	1.0	0.49	ug/L			05/05/23 15:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 15:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 15:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 15:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 15:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 15:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 15:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 15:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 15:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 15:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 15:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 15:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 15:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 15:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 15:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:52	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 15:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 15:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 15:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 15:52	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 15:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 15:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-03
Lab Sample ID: 500-232968-26
Date Collected: 04/25/23 16:45
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 15:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 15:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 15:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 15:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 15:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 15:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 15:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 15:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 15:52*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*05/07/23 18:25*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/05/23 15:52*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/07/23 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*05/05/23 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/07/23 18:25*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/05/23 15:52*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/07/23 18:25*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.068		0.41	0.068	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1221	<0.20		0.41	0.20	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1232	<0.20		0.41	0.20	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1242	<0.20		0.41	0.20	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1248	<0.20		0.41	0.20	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1254	<0.20		0.41	0.20	ug/L		05/04/23 13:41	05/05/23 16:05	1
PCB-1260	<0.072		0.41	0.072	ug/L		05/04/23 13:41	05/05/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 120*	*05/04/23 13:41*	*05/05/23 16:05*	*1*
DCB Decachlorobiphenyl	*67*		*30 - 140*	*05/04/23 13:41*	*05/05/23 16:05*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		05/11/23 09:42	05/11/23 21:00	1
Chromium	<1.1		5.0	1.1	ug/L		05/11/23 09:42	05/11/23 21:00	1
Lead	<0.19		0.50	0.19	ug/L		05/11/23 09:42	05/11/23 21:00	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-206
Lab Sample ID: 500-232968-27
Date Collected: 04/26/23 08:10
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorohexanoic acid (PFHxA)	**1.2**	**J**	1.9	0.55	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluoroheptanoic acid (PFHpA)	**0.72**	**J**	1.9	0.24	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorooctanoic acid (PFOA)	**2.8**		1.9	0.80	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/07/23 13:33	05/10/23 22:48	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/07/23 13:33	05/10/23 22:48	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/07/23 13:33	05/10/23 22:48	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/07/23 13:33	05/10/23 22:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/07/23 13:33	05/10/23 22:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/07/23 13:33	05/10/23 22:48	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/07/23 13:33	05/10/23 22:48	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/07/23 13:33	05/10/23 22:48	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/07/23 13:33	05/10/23 22:48	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/07/23 13:33	05/10/23 22:48	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/07/23 13:33	05/10/23 22:48	1
DONA	<0.38		1.9	0.38	ng/L		05/07/23 13:33	05/10/23 22:48	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/07/23 13:33	05/10/23 22:48	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/07/23 13:33	05/10/23 22:48	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/07/23 13:33	05/10/23 22:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C5 PFPeA	*97*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C2 PFHxA	*101*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C4 PFHpA	*107*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C4 PFOA	*104*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C5 PFNA	*107*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C2 PFDA	*106*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C2 PFUnA	*107*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C2 PFDoA	*99*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*
13C3 PFBS	*96*		*25 - 150*	*05/07/23 13:33*	*05/10/23 22:48*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-206
Lab Sample ID: 500-232968-27
Date Collected: 04/26/23 08:10
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		25 - 150	05/07/23 13:33	05/10/23 22:48	1
13C4 PFOS	105		25 - 150	05/07/23 13:33	05/10/23 22:48	1
13C8 FOSA	125		10 - 150	05/07/23 13:33	05/10/23 22:48	1
d3-NMeFOSAA	135		25 - 150	05/07/23 13:33	05/10/23 22:48	1
d5-NEtFOSAA	138		25 - 150	05/07/23 13:33	05/10/23 22:48	1
d-N-MeFOSA-M	102		10 - 150	05/07/23 13:33	05/10/23 22:48	1
d-N-EtFOSA-M	98		10 - 150	05/07/23 13:33	05/10/23 22:48	1
d7-N-MeFOSE-M	102		10 - 150	05/07/23 13:33	05/10/23 22:48	1
d9-N-EtFOSE-M	96		10 - 150	05/07/23 13:33	05/10/23 22:48	1
M2-4:2 FTS	78		25 - 150	05/07/23 13:33	05/10/23 22:48	1
M2-6:2 FTS	77		25 - 150	05/07/23 13:33	05/10/23 22:48	1
M2-8:2 FTS	86		25 - 150	05/07/23 13:33	05/10/23 22:48	1
13C3 HFPO-DA	101		25 - 150	05/07/23 13:33	05/10/23 22:48	1
13C2 10:2 FTS	96		25 - 150	05/07/23 13:33	05/10/23 22:48	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-17
Lab Sample ID: 500-232968-28
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/07/23 18:51	1
Bromobenzene	<0.36	*+	1.0	0.36	ug/L			05/07/23 18:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/07/23 18:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/07/23 18:51	1
Bromoform	<0.48		1.0	0.48	ug/L			05/07/23 18:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/07/23 18:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/23 18:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/07/23 18:51	1
Chloroform	<0.37		2.0	0.37	ug/L			05/07/23 18:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/07/23 18:51	1
2-Chlorotoluene	<0.31	*+	1.0	0.31	ug/L			05/07/23 18:51	1
4-Chlorotoluene	<0.35	*+	1.0	0.35	ug/L			05/07/23 18:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/23 18:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/07/23 18:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/07/23 18:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/07/23 18:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/07/23 18:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/07/23 18:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/07/23 18:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/07/23 18:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/07/23 18:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/07/23 18:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/07/23 18:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/07/23 18:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/07/23 18:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/07/23 18:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/07/23 18:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/07/23 18:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/07/23 18:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/07/23 18:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
Naphthalene	**1.1**	**B**	1.0	0.34	ug/L			05/07/23 18:51	1
n-Butylbenzene	**0.67**	**J B**	1.0	0.39	ug/L			05/07/23 18:51	1
N-Propylbenzene	**0.65**	**J B**	1.0	0.41	ug/L			05/07/23 18:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/07/23 18:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/07/23 18:51	1
Styrene	<0.39		1.0	0.39	ug/L			05/07/23 18:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/07/23 18:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/07/23 18:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/23 18:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/23 18:51	1
Toluene	<0.15		0.50	0.15	ug/L			05/07/23 18:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/23 18:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/07/23 18:51	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-17
Lab Sample ID: 500-232968-28
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/07/23 18:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/07/23 18:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/23 18:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/23 18:51	1
Trichloroethene	**4.6**		0.50	0.16	ug/L			05/07/23 18:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/07/23 18:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/07/23 18:51	1
1,2,4-Trimethylbenzene	**0.96**	**J B**	1.0	0.36	ug/L			05/07/23 18:51	1
1,3,5-Trimethylbenzene	**0.81**	**J B**	1.0	0.25	ug/L			05/07/23 18:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/07/23 18:51	1
Xylenes, Total	**0.34**	**J**	1.0	0.22	ug/L			05/07/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*05/07/23 18:51*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/07/23 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/07/23 18:51*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/07/23 18:51*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-15
Lab Sample ID: 500-232968-29
Date Collected: 04/26/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**	**J**	2.5	0.73	ug/L			05/08/23 15:13	5
Bromobenzene	<1.8		5.0	1.8	ug/L			05/08/23 15:13	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			05/08/23 15:13	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
Bromoform	<2.4		5.0	2.4	ug/L			05/08/23 15:13	5
Bromomethane	<4.0		15	4.0	ug/L			05/08/23 15:13	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
Chloroethane	<2.5		5.0	2.5	ug/L			05/08/23 15:13	5
Chloroform	<1.9		10	1.9	ug/L			05/08/23 15:13	5
Chloromethane	<1.6		5.0	1.6	ug/L			05/08/23 15:13	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			05/08/23 15:13	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			05/08/23 15:13	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			05/08/23 15:13	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			05/08/23 15:13	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			05/08/23 15:13	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
Dibromomethane	<1.4		5.0	1.4	ug/L			05/08/23 15:13	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			05/08/23 15:13	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			05/08/23 15:13	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			05/08/23 15:13	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			05/08/23 15:13	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			05/08/23 15:13	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			05/08/23 15:13	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			05/08/23 15:13	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			05/08/23 15:13	5
Ethylbenzene	**54**		2.5	0.92	ug/L			05/08/23 15:13	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			05/08/23 15:13	5
Isopropylbenzene	**47**	**B**	5.0	1.9	ug/L			05/08/23 15:13	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			05/08/23 15:13	5
Methylene Chloride	**9.5**	**J**	25	8.2	ug/L			05/08/23 15:13	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
Naphthalene	**180**	**B**	5.0	1.7	ug/L			05/08/23 15:13	5
n-Butylbenzene	**44**	**B**	5.0	1.9	ug/L			05/08/23 15:13	5
N-Propylbenzene	**59**	**B**	5.0	2.1	ug/L			05/08/23 15:13	5
p-Isopropyltoluene	**47**		5.0	1.8	ug/L			05/08/23 15:13	5
sec-Butylbenzene	**23**	**B**	5.0	2.0	ug/L			05/08/23 15:13	5
Styrene	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
tert-Butylbenzene	**11**	**B**	5.0	2.0	ug/L			05/08/23 15:13	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			05/08/23 15:13	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			05/08/23 15:13	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
Toluene	**1.7**	**J**	2.5	0.76	ug/L			05/08/23 15:13	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			05/08/23 15:13	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			05/08/23 15:13	5

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-15
Lab Sample ID: 500-232968-29
Date Collected: 04/26/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			05/08/23 15:13	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			05/08/23 15:13	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			05/08/23 15:13	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			05/08/23 15:13	5
Trichloroethene	**2.0**	**J B**	2.5	0.82	ug/L			05/08/23 15:13	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			05/08/23 15:13	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			05/08/23 15:13	5
1,3,5-Trimethylbenzene	**310**	**B**	5.0	1.3	ug/L			05/08/23 15:13	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			05/08/23 15:13	5
Xylenes, Total	**490**		5.0	1.1	ug/L			05/08/23 15:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/08/23 15:13*	*5*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/08/23 15:13*	*5*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/08/23 15:13*	*5*
Toluene-d8 (Surr)	*93*		*75 - 120*		*05/08/23 15:13*	*5*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1600**	**B**	50	18	ug/L			05/08/23 15:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*05/08/23 15:40*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*05/08/23 15:40*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*05/08/23 15:40*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*		*05/08/23 15:40*	*50*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12
Lab Sample ID: 500-232968-30
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	**3000**		200	49	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorohexanoic acid (PFHxA)	<58		200	58	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluoroheptanoic acid (PFHpA)	**420**	I	200	25	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorooctanoic acid (PFOA)	**14000**		200	85	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorononanoic acid (PFNA)	<27		200	27	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorodecanoic acid (PFDA)	<31		200	31	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluoroundecanoic acid (PFUnA)	<110		200	110	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorododecanoic acid (PFDoA)	<55		200	55	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorotridecanoic acid (PFTriA)	<130		200	130	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorotetradecanoic acid (PFTeA)	<73		200	73	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorobutanesulfonic acid (PFBS)	<20		200	20	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluoropentanesulfonic acid (PFPeS)	<30		200	30	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorohexanesulfonic acid (PFHxS)	<57		200	57	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluoroheptanesulfonic acid (PFHpS)	<19		200	19	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorooctanesulfonic acid (PFOS)	<54		200	54	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorononanesulfonic acid (PFNS)	<37		200	37	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorodecanesulfonic acid (PFDS)	<32		200	32	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorododecanesulfonic acid (PFDoS)	<97		200	97	ng/L		05/07/23 13:33	05/11/23 17:22	10
Perfluorooctanesulfonamide (FOSA)	<98		200	98	ng/L		05/07/23 13:33	05/11/23 17:22	10
NEtFOSA	<87		200	87	ng/L		05/07/23 13:33	05/11/23 17:22	10
NMeFOSA	<43		200	43	ng/L		05/07/23 13:33	05/11/23 17:22	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<120		500	120	ng/L		05/07/23 13:33	05/11/23 17:22	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<130		500	130	ng/L		05/07/23 13:33	05/11/23 17:22	10
NMeFOSE	<140		400	140	ng/L		05/07/23 13:33	05/11/23 17:22	10
NEtFOSE	<85		200	85	ng/L		05/07/23 13:33	05/11/23 17:22	10
4:2 FTS	<24		200	24	ng/L		05/07/23 13:33	05/11/23 17:22	10
6:2 FTS	<250		500	250	ng/L		05/07/23 13:33	05/11/23 17:22	10
8:2 FTS	<46		200	46	ng/L		05/07/23 13:33	05/11/23 17:22	10
DONA	<40		200	40	ng/L		05/07/23 13:33	05/11/23 17:22	10
HFPO-DA (GenX)	<150		400	150	ng/L		05/07/23 13:33	05/11/23 17:22	10
F-53B Major	<24		200	24	ng/L		05/07/23 13:33	05/11/23 17:22	10
F-53B Minor	<32		200	32	ng/L		05/07/23 13:33	05/11/23 17:22	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*19*	*5-	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C2 PFHxA	*50*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C4 PFHpA	*91*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C4 PFOA	*97*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C5 PFNA	*116*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C2 PFDA	*132*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C2 PFUnA	*175*	*5+	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C2 PFDoA	*180*	*5+	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C2 PFTeDA	*107*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C3 PFBS	*107*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
18O2 PFHxS	*129*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*
13C4 PFOS	*148*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:22*	*10*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12
Lab Sample ID: 500-232968-30
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	129		10 - 150	05/07/23 13:33	05/11/23 17:22	10
d3-NMeFOSAA	143		25 - 150	05/07/23 13:33	05/11/23 17:22	10
d5-NEtFOSAA	177	*5+	25 - 150	05/07/23 13:33	05/11/23 17:22	10
d-N-MeFOSA-M	140		10 - 150	05/07/23 13:33	05/11/23 17:22	10
d-N-EtFOSA-M	125		10 - 150	05/07/23 13:33	05/11/23 17:22	10
d7-N-MeFOSE-M	140		10 - 150	05/07/23 13:33	05/11/23 17:22	10
d9-N-EtFOSE-M	120		10 - 150	05/07/23 13:33	05/11/23 17:22	10
M2-4:2 FTS	30		25 - 150	05/07/23 13:33	05/11/23 17:22	10
M2-6:2 FTS	163	*5+	25 - 150	05/07/23 13:33	05/11/23 17:22	10
M2-8:2 FTS	176	*5+	25 - 150	05/07/23 13:33	05/11/23 17:22	10
13C3 HFPO-DA	50		25 - 150	05/07/23 13:33	05/11/23 17:22	10
13C2 10:2 FTS	212	*5+	25 - 150	05/07/23 13:33	05/11/23 17:22	10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<8200	G	8200	8200	ng/L		05/16/23 05:21	05/16/23 15:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	32		25 - 150	05/16/23 05:21	05/16/23 15:54	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**	**J**	500	120	ug/L		05/11/23 09:42	05/11/23 21:03	5
Antimony	<6.6		15	6.6	ug/L		05/11/23 09:42	05/11/23 21:03	5
Arsenic	**8.5**		1.0	0.23	ug/L		05/11/23 09:42	05/12/23 14:29	1
Chromium	**14**	**J**	25	5.7	ug/L		05/11/23 09:42	05/11/23 21:03	5

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-232968-31
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	**4700**		200	49	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorohexanoic acid (PFHxA)	<58		200	58	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluoroheptanoic acid (PFHpA)	**210**		200	25	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorooctanoic acid (PFOA)	**12000**		200	85	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorononanoic acid (PFNA)	<27		200	27	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorodecanoic acid (PFDA)	<31		200	31	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluoroundecanoic acid (PFUnA)	<110		200	110	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorododecanoic acid (PFDoA)	<55		200	55	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorotridecanoic acid (PFTriA)	<130		200	130	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorotetradecanoic acid (PFTeA)	<73		200	73	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorobutanesulfonic acid (PFBS)	<20		200	20	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluoropentanesulfonic acid (PFPeS)	<30		200	30	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorohexanesulfonic acid (PFHxS)	<57		200	57	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluoroheptanesulfonic acid (PFHpS)	<19		200	19	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorooctanesulfonic acid (PFOS)	<54		200	54	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorononanesulfonic acid (PFNS)	<37		200	37	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorodecanesulfonic acid (PFDS)	<32		200	32	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorododecanesulfonic acid (PFDoS)	<97		200	97	ng/L		05/07/23 13:33	05/11/23 17:32	10
Perfluorooctanesulfonamide (FOSA)	<98		200	98	ng/L		05/07/23 13:33	05/11/23 17:32	10
NEtFOSA	<87		200	87	ng/L		05/07/23 13:33	05/11/23 17:32	10
NMeFOSA	<43		200	43	ng/L		05/07/23 13:33	05/11/23 17:32	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<120		500	120	ng/L		05/07/23 13:33	05/11/23 17:32	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<130		500	130	ng/L		05/07/23 13:33	05/11/23 17:32	10
NMeFOSE	<140		400	140	ng/L		05/07/23 13:33	05/11/23 17:32	10
NEtFOSE	<85		200	85	ng/L		05/07/23 13:33	05/11/23 17:32	10
4:2 FTS	<24		200	24	ng/L		05/07/23 13:33	05/11/23 17:32	10
6:2 FTS	<250		500	250	ng/L		05/07/23 13:33	05/11/23 17:32	10
8:2 FTS	<46		200	46	ng/L		05/07/23 13:33	05/11/23 17:32	10
DONA	<40		200	40	ng/L		05/07/23 13:33	05/11/23 17:32	10
HFPO-DA (GenX)	<150		400	150	ng/L		05/07/23 13:33	05/11/23 17:32	10
F-53B Major	<24		200	24	ng/L		05/07/23 13:33	05/11/23 17:32	10
F-53B Minor	<32		200	32	ng/L		05/07/23 13:33	05/11/23 17:32	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*11*	*5-*	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C2 PFHxA	*50*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C4 PFHpA	*88*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C4 PFOA	*96*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C5 PFNA	*108*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C2 PFDA	*124*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C2 PFUnA	*152*	*5+*	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C2 PFDoA	*166*	*5+*	*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C2 PFTeDA	*93*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C3 PFBS	*101*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
18O2 PFHxS	*122*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*
13C4 PFOS	*132*		*25 - 150*	*05/07/23 13:33*	*05/11/23 17:32*	*10*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-232968-31
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	131		10 - 150	05/07/23 13:33	05/11/23 17:32	10
d3-NMeFOSAA	134		25 - 150	05/07/23 13:33	05/11/23 17:32	10
d5-NEtFOSAA	152	*5+	25 - 150	05/07/23 13:33	05/11/23 17:32	10
d-N-MeFOSA-M	134		10 - 150	05/07/23 13:33	05/11/23 17:32	10
d-N-EtFOSA-M	126		10 - 150	05/07/23 13:33	05/11/23 17:32	10
d7-N-MeFOSE-M	126		10 - 150	05/07/23 13:33	05/11/23 17:32	10
d9-N-EtFOSE-M	115		10 - 150	05/07/23 13:33	05/11/23 17:32	10
M2-4:2 FTS	30		25 - 150	05/07/23 13:33	05/11/23 17:32	10
M2-6:2 FTS	182	*5+	25 - 150	05/07/23 13:33	05/11/23 17:32	10
M2-8:2 FTS	171	*5+	25 - 150	05/07/23 13:33	05/11/23 17:32	10
13C3 HFPO-DA	47		25 - 150	05/07/23 13:33	05/11/23 17:32	10
13C2 10:2 FTS	174	*5+	25 - 150	05/07/23 13:33	05/11/23 17:32	10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<7700	G	7700	7700	ng/L		05/16/23 05:21	05/16/23 16:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	30		25 - 150	05/16/23 05:21	05/16/23 16:05	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**	**J**	500	120	ug/L		05/11/23 09:42	05/11/23 21:06	5
Antimony	<6.6		15	6.6	ug/L		05/11/23 09:42	05/11/23 21:06	5
Arsenic	**8.2**		1.0	0.23	ug/L		05/11/23 09:42	05/12/23 14:33	1
Chromium	**13**	**J**	25	5.7	ug/L		05/11/23 09:42	05/11/23 21:06	5

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9
Lab Sample ID: 500-232968-32
Date Collected: 04/26/23 13:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/08/23 16:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/08/23 16:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/08/23 16:06	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/08/23 16:06	1
Bromoform	<0.48		1.0	0.48	ug/L			05/08/23 16:06	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/08/23 16:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/08/23 16:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/08/23 16:06	1
Chloroform	<0.37		2.0	0.37	ug/L			05/08/23 16:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/08/23 16:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/08/23 16:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/08/23 16:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/08/23 16:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/08/23 16:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/08/23 16:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/08/23 16:06	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/08/23 16:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/08/23 16:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/08/23 16:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/08/23 16:06	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/08/23 16:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/08/23 16:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/08/23 16:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/08/23 16:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/08/23 16:06	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/08/23 16:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/08/23 16:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/08/23 16:06	1
Isopropylbenzene	**0.68**	**J B**	1.0	0.39	ug/L			05/08/23 16:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/08/23 16:06	1
Methylene Chloride	**1.7**	**J**	5.0	1.6	ug/L			05/08/23 16:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
Naphthalene	**1.4**	**B**	1.0	0.34	ug/L			05/08/23 16:06	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
N-Propylbenzene	**0.65**	**J B**	1.0	0.41	ug/L			05/08/23 16:06	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/08/23 16:06	1
sec-Butylbenzene	**0.66**	**J B**	1.0	0.40	ug/L			05/08/23 16:06	1
Styrene	<0.39		1.0	0.39	ug/L			05/08/23 16:06	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/08/23 16:06	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/08/23 16:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/08/23 16:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/08/23 16:06	1
Toluene	**0.33**	**J**	0.50	0.15	ug/L			05/08/23 16:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/08/23 16:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/08/23 16:06	1

Client Sample ID: MW-9
Lab Sample ID: 500-232968-32
Date Collected: 04/26/23 13:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/08/23 16:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/08/23 16:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/08/23 16:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/08/23 16:06	1
Trichloroethene	**8.8**	**B**	0.50	0.16	ug/L			05/08/23 16:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/08/23 16:06	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/08/23 16:06	1
1,2,4-Trimethylbenzene	**1.4**	**B**	1.0	0.36	ug/L			05/08/23 16:06	1
1,3,5-Trimethylbenzene	**0.92**	**J B**	1.0	0.25	ug/L			05/08/23 16:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/08/23 16:06	1
Xylenes, Total	**0.54**	**J**	1.0	0.22	ug/L			05/08/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/08/23 16:06*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*05/08/23 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/08/23 16:06*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*05/08/23 16:06*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	<2.9	F1	10	2.9	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluoroheptanoic acid (PFHpA)	<1.3	F1	10	1.3	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorooctanoic acid (PFOA)	**1600**		10	4.3	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorotridecanoic acid (PFTriA)	<6.5	F1	10	6.5	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorobutanesulfonic acid (PFBS)	<1.0	F1	10	1.0	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5	F1	10	1.5	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9	F2 F1	10	2.9	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95	F1	10	0.95	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorooctanesulfonic acid (PFOS)	<2.7		10	2.7	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		05/12/23 05:28	05/18/23 22:09	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		05/12/23 05:28	05/18/23 22:09	1
NEtFOSA	<4.4		10	4.4	ng/L		05/12/23 05:28	05/18/23 22:09	1
NMeFOSA	<2.2		10	2.2	ng/L		05/12/23 05:28	05/18/23 22:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		25	6.0	ng/L		05/12/23 05:28	05/18/23 22:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		25	6.5	ng/L		05/12/23 05:28	05/18/23 22:09	1
NMeFOSE	<7.0		20	7.0	ng/L		05/12/23 05:28	05/18/23 22:09	1
NEtFOSE	<4.3		10	4.3	ng/L		05/12/23 05:28	05/18/23 22:09	1
4:2 FTS	<1.2	F1	10	1.2	ng/L		05/12/23 05:28	05/18/23 22:09	1
6:2 FTS	<13	F2 F1	25	13	ng/L		05/12/23 05:28	05/18/23 22:09	1

Client Sample ID: MW-9
Lab Sample ID: 500-232968-32
Date Collected: 04/26/23 13:00
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<2.3		10	2.3	ng/L		05/12/23 05:28	05/18/23 22:09	1
DONA	<2.0	F1	10	2.0	ng/L		05/12/23 05:28	05/18/23 22:09	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		05/12/23 05:28	05/18/23 22:09	1
F-53B Major	<1.2		10	1.2	ng/L		05/12/23 05:28	05/18/23 22:09	1
F-53B Minor	<1.6		10	1.6	ng/L		05/12/23 05:28	05/18/23 22:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*16*	**5-*	*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 PFHxA	*29*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C4 PFHpA	*48*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C4 PFOA	*80*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C5 PFNA	*109*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 PFDA	*91*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 PFUnA	*87*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 PFDoA	*105*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 PFTeDA	*134*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C3 PFBS	*84*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
18O2 PFHxS	*176*	**5+*	*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C4 PFOS	*151*	**5+*	*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C8 FOSA	*65*		*10 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d3-NMeFOSAA	*48*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d5-NEtFOSAA	*65*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d-N-MeFOSA-M	*106*		*10 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d-N-EtFOSA-M	*108*		*10 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d7-N-MeFOSE-M	*108*		*10 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
d9-N-EtFOSE-M	*108*		*10 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
M2-4:2 FTS	*107*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
M2-6:2 FTS	*380*	**5+*	*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
M2-8:2 FTS	*215*	**5+*	*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C3 HFPO-DA	*73*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*
13C2 10:2 FTS	*102*		*25 - 150*	*05/12/23 05:28*	*05/18/23 22:09*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<5100	G	5100	5100	ng/L		05/12/23 05:28	05/18/23 21:38	100

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*56*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:38*	*100*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<240		500	240	ng/L		05/22/23 05:03	05/22/23 22:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65*		*25 - 150*	*05/22/23 05:03*	*05/22/23 22:01*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19 DUP
Lab Sample ID: 500-232968-33
Date Collected: 04/25/23 10:45
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 19:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 19:26	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 19:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 19:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 19:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 19:26	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 19:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 19:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 19:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 19:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 19:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 19:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 19:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 19:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 19:26	1
1,2-Dichlorobenzene	**0.38**	**J**	1.0	0.33	ug/L			05/05/23 19:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 19:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 19:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 19:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 19:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 19:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 19:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 19:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 19:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 19:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
Naphthalene	**0.58**	**J**	1.0	0.34	ug/L			05/05/23 19:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 19:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:26	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 19:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 19:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 19:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 19:26	1
Toluene	**0.16**	**J**	0.50	0.15	ug/L			05/05/23 19:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 19:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19 DUP
Lab Sample ID: 500-232968-33
Date Collected: 04/25/23 10:45
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	**0.81**	**J**	1.0	0.46	ug/L			05/05/23 19:26	1
1,2,4-Trichlorobenzene	**0.63**	**J**	1.0	0.34	ug/L			05/05/23 19:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 19:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 19:26	1
Trichloroethene	**3.8**		0.50	0.16	ug/L			05/05/23 19:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 19:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 19:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 19:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*05/05/23 19:26*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*05/05/23 19:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*05/05/23 19:26*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*05/05/23 19:26*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.43	0.072	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1221	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1232	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1242	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1248	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1254	<0.21		0.43	0.21	ug/L		05/04/23 13:41	05/05/23 16:18	1
PCB-1260	**0.095**	**J**	0.43	0.075	ug/L		05/04/23 13:41	05/05/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 120*	*05/04/23 13:41*	*05/05/23 16:18*	*1*
DCB Decachlorobiphenyl	*90*		*30 - 140*	*05/04/23 13:41*	*05/05/23 16:18*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**160**		5.0	1.1	ug/L		05/11/23 09:42	05/11/23 21:10	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-06
Lab Sample ID: 500-232968-34
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 16:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 16:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 16:16	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 16:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 16:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 16:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 16:16	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 16:16	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 16:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 16:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 16:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 16:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 16:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 16:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 16:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 16:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 16:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 16:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 16:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 16:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 16:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 16:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 16:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 16:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 16:16	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 16:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 16:16	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 16:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:16	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 16:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:16	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 16:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 16:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 16:16	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 16:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 16:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-06
Lab Sample ID: 500-232968-34
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 16:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 16:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 16:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 16:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 16:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 16:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 16:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 16:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 16:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 16:16*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/05/23 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*05/05/23 16:16*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 16:16*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		05/12/23 05:28	05/18/23 18:13	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		05/12/23 05:28	05/18/23 18:13	1
NEtFOSA	<0.81		1.9	0.81	ng/L		05/12/23 05:28	05/18/23 18:13	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/12/23 05:28	05/18/23 18:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 18:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 18:13	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:28	05/18/23 18:13	1
NEtFOSE	<0.79		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 18:13	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-06
Lab Sample ID: 500-232968-34
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 18:13	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 18:13	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 18:13	1
DONA	<0.37		1.9	0.37	ng/L		05/12/23 05:28	05/18/23 18:13	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:28	05/18/23 18:13	1
F-53B Major	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 18:13	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*119*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C5 PFPeA	*119*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 PFHxA	*113*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C4 PFHpA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C4 PFOA	*100*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C5 PFNA	*118*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 PFDA	*125*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 PFUnA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 PFDoA	*110*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C3 PFBS	*123*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
18O2 PFHxS	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C4 PFOS	*121*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C8 FOSA	*116*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d3-NMeFOSAA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d5-NEtFOSAA	*120*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d-N-MeFOSA-M	*107*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d-N-EtFOSA-M	*100*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d7-N-MeFOSE-M	*115*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
d9-N-EtFOSE-M	*115*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
M2-4:2 FTS	*89*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
M2-6:2 FTS	*78*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C3 HFPO-DA	*121*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*
13C2 10:2 FTS	*96*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:13*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		05/11/23 09:42	05/11/23 21:13	1
Antimony	<1.3		3.0	1.3	ug/L		05/11/23 09:42	05/11/23 21:13	1
Arsenic	<0.23		1.0	0.23	ug/L		05/11/23 09:42	05/12/23 14:36	1
Chromium	<1.1		5.0	1.1	ug/L		05/11/23 09:42	05/11/23 21:13	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-06
Lab Sample ID: 500-232968-35
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		05/12/23 05:28	05/18/23 18:23	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		05/12/23 05:28	05/18/23 18:23	1
NEtFOSA	<0.79		1.8	0.79	ng/L		05/12/23 05:28	05/18/23 18:23	1
NMeFOSA	<0.39		1.8	0.39	ng/L		05/12/23 05:28	05/18/23 18:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		05/12/23 05:28	05/18/23 18:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		05/12/23 05:28	05/18/23 18:23	1
NMeFOSE	<1.3		3.6	1.3	ng/L		05/12/23 05:28	05/18/23 18:23	1
NEtFOSE	<0.77		1.8	0.77	ng/L		05/12/23 05:28	05/18/23 18:23	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 18:23	1
6:2 FTS	<2.3		4.5	2.3	ng/L		05/12/23 05:28	05/18/23 18:23	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/12/23 05:28	05/18/23 18:23	1
DONA	<0.36		1.8	0.36	ng/L		05/12/23 05:28	05/18/23 18:23	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		05/12/23 05:28	05/18/23 18:23	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 18:23	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 18:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*118*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C5 PFPeA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C2 PFHxA	*115*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C4 PFHpA	*120*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C4 PFOA	*104*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C5 PFNA	*121*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C2 PFDA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C2 PFUnA	*112*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C2 PFDoA	*104*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*
13C3 PFBS	*115*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:23*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-06
Lab Sample ID: 500-232968-35
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	112		25 - 150	05/12/23 05:28	05/18/23 18:23	1
13C4 PFOS	121		25 - 150	05/12/23 05:28	05/18/23 18:23	1
13C8 FOSA	109		10 - 150	05/12/23 05:28	05/18/23 18:23	1
d3-NMeFOSAA	106		25 - 150	05/12/23 05:28	05/18/23 18:23	1
d5-NEtFOSAA	110		25 - 150	05/12/23 05:28	05/18/23 18:23	1
d-N-MeFOSA-M	95		10 - 150	05/12/23 05:28	05/18/23 18:23	1
d-N-EtFOSA-M	98		10 - 150	05/12/23 05:28	05/18/23 18:23	1
d7-N-MeFOSE-M	106		10 - 150	05/12/23 05:28	05/18/23 18:23	1
d9-N-EtFOSE-M	108		10 - 150	05/12/23 05:28	05/18/23 18:23	1
M2-4:2 FTS	85		25 - 150	05/12/23 05:28	05/18/23 18:23	1
M2-6:2 FTS	80		25 - 150	05/12/23 05:28	05/18/23 18:23	1
M2-8:2 FTS	91		25 - 150	05/12/23 05:28	05/18/23 18:23	1
13C3 HFPO-DA	121		25 - 150	05/12/23 05:28	05/18/23 18:23	1
13C2 10:2 FTS	80		25 - 150	05/12/23 05:28	05/18/23 18:23	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-232968-36

Date Collected: 04/25/23 00:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 15:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 15:04	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 15:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 15:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 15:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 15:04	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 15:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 15:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 15:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 15:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 15:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 15:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 15:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 15:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 15:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 15:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 15:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 15:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 15:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 15:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 15:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 15:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 15:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 15:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 15:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 15:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 15:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:04	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 15:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 15:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 15:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 15:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 15:04	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 15:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 15:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-232968-36
Date Collected: 04/25/23 00:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 15:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 15:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 15:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 15:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 15:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 15:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 15:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 15:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 15:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 15:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 15:04*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*05/05/23 15:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/05/23 15:04*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 15:04*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-232968-37
Date Collected: 04/25/23 08:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 19:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 19:50	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 19:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 19:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 19:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 19:50	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 19:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 19:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 19:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 19:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 19:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 19:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 19:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 19:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 19:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 19:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 19:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 19:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 19:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 19:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 19:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 19:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 19:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 19:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 19:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 19:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 19:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:50	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 19:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 19:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 19:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 19:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 19:50	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 19:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 19:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-232968-37
Date Collected: 04/25/23 08:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 19:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 19:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 19:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 19:50	1
Trichloroethene	**1.8**		0.50	0.16	ug/L			05/05/23 19:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 19:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 19:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 19:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 19:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 19:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*05/05/23 19:50*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*05/05/23 19:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 19:50*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 19:50*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.1**		4.7	2.2	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluoropentanoic acid (PFPeA)	**2.0**		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorohexanoic acid (PFHxA)	**1.9**		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluoroheptanoic acid (PFHpA)	**2.3**		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorooctanoic acid (PFOA)	**48**		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorononanoic acid (PFNA)	**0.96**	**J**	1.9	0.25	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorodecanoic acid (PFDA)	**0.41**	**J**	1.9	0.29	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorobutanesulfonic acid (PFBS)	**1.0**	**J**	1.9	0.19	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorohexanesulfonic acid (PFHxS)	**5.6**		1.9	0.53	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.9	0.50	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		05/12/23 05:28	05/18/23 18:33	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		05/12/23 05:28	05/18/23 18:33	1
NEtFOSA	<0.81		1.9	0.81	ng/L		05/12/23 05:28	05/18/23 18:33	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/12/23 05:28	05/18/23 18:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 18:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 18:33	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-232968-37
Date Collected: 04/25/23 08:35
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:28	05/18/23 18:33	1
NEtFOSE	<0.79		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 18:33	1
4:2 FTS	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 18:33	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 18:33	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 18:33	1
DONA	<0.37		1.9	0.37	ng/L		05/12/23 05:28	05/18/23 18:33	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:28	05/18/23 18:33	1
F-53B Major	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 18:33	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*136*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C5 PFPeA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 PFHxA	*128*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C4 PFHpA	*128*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C4 PFOA	*105*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C5 PFNA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 PFDA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 PFUnA	*110*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 PFDoA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 PFTeDA	*77*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C3 PFBS	*124*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
18O2 PFHxS	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C4 PFOS	*107*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C8 FOSA	*113*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d3-NMeFOSAA	*115*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d5-NEtFOSAA	*122*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d-N-MeFOSA-M	*104*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d-N-EtFOSA-M	*96*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d7-N-MeFOSE-M	*99*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
d9-N-EtFOSE-M	*97*		*10 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
M2-4:2 FTS	*120*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
M2-6:2 FTS	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C3 HFPO-DA	*117*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*
13C2 10:2 FTS	*87*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:33*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200
Lab Sample ID: 500-232968-38
Date Collected: 04/25/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.0**		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluoropentanoic acid (PFPeA)	**5.8**		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorohexanoic acid (PFHxA)	**5.4**		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluoroheptanoic acid (PFHpA)	**6.7**		1.9	0.24	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorooctanoic acid (PFOA)	**96**		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorobutanesulfonic acid (PFBS)	**19**		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorohexanesulfonic acid (PFHxS)	**3.7**		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/12/23 05:28	05/18/23 18:44	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/12/23 05:28	05/18/23 18:44	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 18:44	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/12/23 05:28	05/18/23 18:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 18:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 18:44	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/12/23 05:28	05/18/23 18:44	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 18:44	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:44	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/12/23 05:28	05/18/23 18:44	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 18:44	1
DONA	<0.38		1.9	0.38	ng/L		05/12/23 05:28	05/18/23 18:44	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/12/23 05:28	05/18/23 18:44	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:44	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C5 PFPeA	*96*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C2 PFHxA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C4 PFHpA	*89*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C4 PFOA	*83*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C5 PFNA	*91*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C2 PFDA	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C2 PFUnA	*78*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C2 PFDoA	*73*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*
13C2 PFTeDA	*54*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:44*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200
Lab Sample ID: 500-232968-38
Date Collected: 04/25/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	90		25 - 150	05/12/23 05:28	05/18/23 18:44	1
18O2 PFHxS	73		25 - 150	05/12/23 05:28	05/18/23 18:44	1
13C4 PFOS	90		25 - 150	05/12/23 05:28	05/18/23 18:44	1
13C8 FOSA	89		10 - 150	05/12/23 05:28	05/18/23 18:44	1
d3-NMeFOSAA	83		25 - 150	05/12/23 05:28	05/18/23 18:44	1
d5-NEtFOSAA	79		25 - 150	05/12/23 05:28	05/18/23 18:44	1
d-N-MeFOSA-M	73		10 - 150	05/12/23 05:28	05/18/23 18:44	1
d-N-EtFOSA-M	68		10 - 150	05/12/23 05:28	05/18/23 18:44	1
d7-N-MeFOSE-M	68		10 - 150	05/12/23 05:28	05/18/23 18:44	1
d9-N-EtFOSE-M	66		10 - 150	05/12/23 05:28	05/18/23 18:44	1
M2-4:2 FTS	73		25 - 150	05/12/23 05:28	05/18/23 18:44	1
M2-6:2 FTS	63		25 - 150	05/12/23 05:28	05/18/23 18:44	1
M2-8:2 FTS	83		25 - 150	05/12/23 05:28	05/18/23 18:44	1
13C3 HFPO-DA	96		25 - 150	05/12/23 05:28	05/18/23 18:44	1
13C2 10:2 FTS	60		25 - 150	05/12/23 05:28	05/18/23 18:44	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-200
Lab Sample ID: 500-232968-39
Date Collected: 04/25/23 11:10
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorohexanoic acid (PFHxA)	**1.9**		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluoroheptanoic acid (PFHpA)	**1.3**	**J**	1.9	0.24	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorooctanoic acid (PFOA)	**6.2**		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/12/23 05:28	05/18/23 18:54	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/12/23 05:28	05/18/23 18:54	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 18:54	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/12/23 05:28	05/18/23 18:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 18:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 18:54	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/12/23 05:28	05/18/23 18:54	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 18:54	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:54	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/12/23 05:28	05/18/23 18:54	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 18:54	1
DONA	<0.38		1.9	0.38	ng/L		05/12/23 05:28	05/18/23 18:54	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/12/23 05:28	05/18/23 18:54	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 18:54	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 18:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C5 PFPeA	*115*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C2 PFHxA	*128*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C4 PFHpA	*122*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C4 PFOA	*105*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C5 PFNA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C2 PFDA	*106*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C2 PFUnA	*100*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C2 PFDoA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C2 PFTeDA	*82*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*
13C3 PFBS	*124*		*25 - 150*	*05/12/23 05:28*	*05/18/23 18:54*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-200
Lab Sample ID: 500-232968-39
Date Collected: 04/25/23 11:10
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	110		25 - 150	05/12/23 05:28	05/18/23 18:54	1
13C4 PFOS	117		25 - 150	05/12/23 05:28	05/18/23 18:54	1
13C8 FOSA	122		10 - 150	05/12/23 05:28	05/18/23 18:54	1
d3-NMeFOSAA	102		25 - 150	05/12/23 05:28	05/18/23 18:54	1
d5-NEtFOSAA	108		25 - 150	05/12/23 05:28	05/18/23 18:54	1
d-N-MeFOSA-M	117		10 - 150	05/12/23 05:28	05/18/23 18:54	1
d-N-EtFOSA-M	104		10 - 150	05/12/23 05:28	05/18/23 18:54	1
d7-N-MeFOSE-M	99		10 - 150	05/12/23 05:28	05/18/23 18:54	1
d9-N-EtFOSE-M	99		10 - 150	05/12/23 05:28	05/18/23 18:54	1
M2-4:2 FTS	109		25 - 150	05/12/23 05:28	05/18/23 18:54	1
M2-6:2 FTS	85		25 - 150	05/12/23 05:28	05/18/23 18:54	1
M2-8:2 FTS	88		25 - 150	05/12/23 05:28	05/18/23 18:54	1
13C3 HFPO-DA	115		25 - 150	05/12/23 05:28	05/18/23 18:54	1
13C2 10:2 FTS	76		25 - 150	05/12/23 05:28	05/18/23 18:54	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-201
Lab Sample ID: 500-232968-40
Date Collected: 04/25/23 12:40
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**16**		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluoropentanoic acid (PFPeA)	**38**		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorohexanoic acid (PFHxA)	**33**		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluoroheptanoic acid (PFHpA)	**14**		1.9	0.24	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorooctanoic acid (PFOA)	**170**		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorobutanesulfonic acid (PFBS)	**2.1**		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorohexanesulfonic acid (PFHxS)	**5.6**		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorooctanesulfonic acid (PFOS)	**4.0**		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/12/23 05:28	05/18/23 19:04	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/12/23 05:28	05/18/23 19:04	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 19:04	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/12/23 05:28	05/18/23 19:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 19:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 19:04	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/12/23 05:28	05/18/23 19:04	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 19:04	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:04	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/12/23 05:28	05/18/23 19:04	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 19:04	1
DONA	<0.38		1.9	0.38	ng/L		05/12/23 05:28	05/18/23 19:04	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/12/23 05:28	05/18/23 19:04	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:04	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*106*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C5 PFPeA	*104*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C2 PFHxA	*114*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C4 PFHpA	*129*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C4 PFOA	*106*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C5 PFNA	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C2 PFDA	*104*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C2 PFUnA	*100*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*
13C2 PFDoA	*91*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:04*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-201
Lab Sample ID: 500-232968-40
Date Collected: 04/25/23 12:40
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	72		25 - 150	05/12/23 05:28	05/18/23 19:04	1
13C3 PFBS	104		25 - 150	05/12/23 05:28	05/18/23 19:04	1
18O2 PFHxS	106		25 - 150	05/12/23 05:28	05/18/23 19:04	1
13C4 PFOS	105		25 - 150	05/12/23 05:28	05/18/23 19:04	1
13C8 FOSA	103		10 - 150	05/12/23 05:28	05/18/23 19:04	1
d3-NMeFOSAA	96		25 - 150	05/12/23 05:28	05/18/23 19:04	1
d5-NEtFOSAA	102		25 - 150	05/12/23 05:28	05/18/23 19:04	1
d-N-MeFOSA-M	94		10 - 150	05/12/23 05:28	05/18/23 19:04	1
d-N-EtFOSA-M	92		10 - 150	05/12/23 05:28	05/18/23 19:04	1
d7-N-MeFOSE-M	93		10 - 150	05/12/23 05:28	05/18/23 19:04	1
d9-N-EtFOSE-M	95		10 - 150	05/12/23 05:28	05/18/23 19:04	1
M2-4:2 FTS	130		25 - 150	05/12/23 05:28	05/18/23 19:04	1
M2-6:2 FTS	102		25 - 150	05/12/23 05:28	05/18/23 19:04	1
M2-8:2 FTS	98		25 - 150	05/12/23 05:28	05/18/23 19:04	1
13C3 HFPO-DA	99		25 - 150	05/12/23 05:28	05/18/23 19:04	1
13C2 10:2 FTS	69		25 - 150	05/12/23 05:28	05/18/23 19:04	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-14
Lab Sample ID: 500-232968-41
Date Collected: 04/25/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**10**		4.5	2.1	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluoropentanoic acid (PFPeA)	**6.8**		1.8	0.44	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorohexanoic acid (PFHxA)	**8.3**		1.8	0.52	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluoroheptanoic acid (PFHpA)	**12**		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorooctanoic acid (PFOA)	**200**		1.8	0.76	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorobutanesulfonic acid (PFBS)	**3.4**		1.8	0.18	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorohexanesulfonic acid (PFHxS)	**4.5**		1.8	0.51	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorooctanesulfonic acid (PFOS)	**4.1**		1.8	0.48	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		05/12/23 05:28	05/18/23 19:14	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		05/12/23 05:28	05/18/23 19:14	1
NEtFOSA	<0.78		1.8	0.78	ng/L		05/12/23 05:28	05/18/23 19:14	1
NMeFOSA	<0.39		1.8	0.39	ng/L		05/12/23 05:28	05/18/23 19:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		05/12/23 05:28	05/18/23 19:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		05/12/23 05:28	05/18/23 19:14	1
NMeFOSE	<1.3		3.6	1.3	ng/L		05/12/23 05:28	05/18/23 19:14	1
NEtFOSE	<0.76		1.8	0.76	ng/L		05/12/23 05:28	05/18/23 19:14	1
4:2 FTS	<0.21		1.8	0.21	ng/L		05/12/23 05:28	05/18/23 19:14	1
6:2 FTS	<2.2		4.5	2.2	ng/L		05/12/23 05:28	05/18/23 19:14	1
8:2 FTS	<0.41		1.8	0.41	ng/L		05/12/23 05:28	05/18/23 19:14	1
DONA	<0.36		1.8	0.36	ng/L		05/12/23 05:28	05/18/23 19:14	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		05/12/23 05:28	05/18/23 19:14	1
F-53B Major	<0.21		1.8	0.21	ng/L		05/12/23 05:28	05/18/23 19:14	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 19:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C5 PFPeA	*95*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C2 PFHxA	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C4 PFHpA	*100*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C4 PFOA	*91*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C5 PFNA	*97*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C2 PFDA	*94*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C2 PFUnA	*82*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C2 PFDoA	*76*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-14
Lab Sample ID: 500-232968-41
Date Collected: 04/25/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*57*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C3 PFBS	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
18O2 PFHxS	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C4 PFOS	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C8 FOSA	*95*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d3-NMeFOSAA	*87*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d5-NEtFOSAA	*87*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d-N-MeFOSA-M	*80*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d-N-EtFOSA-M	*75*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d7-N-MeFOSE-M	*79*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
d9-N-EtFOSE-M	*69*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
M2-4:2 FTS	*113*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
M2-6:2 FTS	*92*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
M2-8:2 FTS	*88*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C3 HFPO-DA	*92*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*
13C2 10:2 FTS	*59*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:14*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**95**	**J**	100	25	ug/L		05/11/23 09:42	05/11/23 21:17	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-204
Lab Sample ID: 500-232968-42
Date Collected: 04/25/23 15:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**13**		4.8	2.3	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluoropentanoic acid (PFPeA)	**5.8**		1.9	0.47	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorohexanoic acid (PFHxA)	**9.5**		1.9	0.56	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluoroheptanoic acid (PFHpA)	**6.9**		1.9	0.24	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorooctanoic acid (PFOA)	**89**		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorobutanesulfonic acid (PFBS)	**2.0**		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	**32**		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorooctanesulfonic acid (PFOS)	**13**		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		05/12/23 05:28	05/18/23 19:25	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		05/12/23 05:28	05/18/23 19:25	1
NEtFOSA	<0.84		1.9	0.84	ng/L		05/12/23 05:28	05/18/23 19:25	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/12/23 05:28	05/18/23 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		05/12/23 05:28	05/18/23 19:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		05/12/23 05:28	05/18/23 19:25	1
NMeFOSE	<1.4		3.9	1.4	ng/L		05/12/23 05:28	05/18/23 19:25	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 19:25	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:25	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/12/23 05:28	05/18/23 19:25	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/12/23 05:28	05/18/23 19:25	1
DONA	<0.39		1.9	0.39	ng/L		05/12/23 05:28	05/18/23 19:25	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		05/12/23 05:28	05/18/23 19:25	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:25	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/12/23 05:28	05/18/23 19:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*118*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C5 PFPeA	*102*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C2 PFHxA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C4 PFHpA	*123*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C5 PFNA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C2 PFDA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C2 PFUnA	*100*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*
13C2 PFDoA	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:25*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-204
Lab Sample ID: 500-232968-42
Date Collected: 04/25/23 15:35
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	81		25 - 150	05/12/23 05:28	05/18/23 19:25	1
13C3 PFBS	109		25 - 150	05/12/23 05:28	05/18/23 19:25	1
18O2 PFHxS	97		25 - 150	05/12/23 05:28	05/18/23 19:25	1
13C4 PFOS	104		25 - 150	05/12/23 05:28	05/18/23 19:25	1
13C8 FOSA	110		10 - 150	05/12/23 05:28	05/18/23 19:25	1
d3-NMeFOSAA	106		25 - 150	05/12/23 05:28	05/18/23 19:25	1
d5-NEtFOSAA	110		25 - 150	05/12/23 05:28	05/18/23 19:25	1
d-N-MeFOSA-M	106		10 - 150	05/12/23 05:28	05/18/23 19:25	1
d-N-EtFOSA-M	100		10 - 150	05/12/23 05:28	05/18/23 19:25	1
d7-N-MeFOSE-M	93		10 - 150	05/12/23 05:28	05/18/23 19:25	1
d9-N-EtFOSE-M	95		10 - 150	05/12/23 05:28	05/18/23 19:25	1
M2-4:2 FTS	122		25 - 150	05/12/23 05:28	05/18/23 19:25	1
M2-6:2 FTS	106		25 - 150	05/12/23 05:28	05/18/23 19:25	1
M2-8:2 FTS	101		25 - 150	05/12/23 05:28	05/18/23 19:25	1
13C3 HFPO-DA	106		25 - 150	05/12/23 05:28	05/18/23 19:25	1
13C2 10:2 FTS	82		25 - 150	05/12/23 05:28	05/18/23 19:25	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213
Lab Sample ID: 500-232968-43
Date Collected: 04/25/23 16:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 20:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 20:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 20:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 20:14	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 20:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 20:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 20:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 20:14	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 20:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 20:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 20:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 20:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 20:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 20:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 20:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 20:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 20:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 20:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 20:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 20:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 20:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 20:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 20:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 20:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 20:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 20:14	1
Ethylbenzene	**79**		0.50	0.18	ug/L			05/05/23 20:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 20:14	1
Isopropylbenzene	**57**		1.0	0.39	ug/L			05/05/23 20:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 20:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 20:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
Naphthalene	**98**		1.0	0.34	ug/L			05/05/23 20:14	1
n-Butylbenzene	**23**		1.0	0.39	ug/L			05/05/23 20:14	1
N-Propylbenzene	**82**		1.0	0.41	ug/L			05/05/23 20:14	1
p-Isopropyltoluene	**23**		1.0	0.36	ug/L			05/05/23 20:14	1
sec-Butylbenzene	**20**		1.0	0.40	ug/L			05/05/23 20:14	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 20:14	1
tert-Butylbenzene	**8.2**		1.0	0.40	ug/L			05/05/23 20:14	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 20:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 20:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 20:14	1
Toluene	**0.45**	**J**	0.50	0.15	ug/L			05/05/23 20:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 20:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 20:14	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213
Lab Sample ID: 500-232968-43
Date Collected: 04/25/23 16:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 20:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 20:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 20:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 20:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 20:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 20:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 20:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 20:14	1
Xylenes, Total	**270**		1.0	0.22	ug/L			05/05/23 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*05/05/23 20:14*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*05/05/23 20:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/05/23 20:14*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 20:14*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**710**		10	3.6	ug/L			05/05/23 20:38	10
1,3,5-Trimethylbenzene	**250**		10	2.5	ug/L			05/05/23 20:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 20:38*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*05/05/23 20:38*	*10*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/05/23 20:38*	*10*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 20:38*	*10*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluoropentanoic acid (PFPeA)	**3.3**		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorohexanoic acid (PFHxA)	**8.1**		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluoroheptanoic acid (PFHpA)	**33**		1.9	0.24	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorooctanoic acid (PFOA)	**350**		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	**2.0**		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 19:55	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213
Lab Sample ID: 500-232968-43
Date Collected: 04/25/23 16:35
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/12/23 05:28	05/18/23 19:55	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/12/23 05:28	05/18/23 19:55	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 19:55	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/12/23 05:28	05/18/23 19:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 19:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 19:55	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/12/23 05:28	05/18/23 19:55	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/12/23 05:28	05/18/23 19:55	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:55	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/12/23 05:28	05/18/23 19:55	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/12/23 05:28	05/18/23 19:55	1
DONA	<0.38		1.9	0.38	ng/L		05/12/23 05:28	05/18/23 19:55	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/12/23 05:28	05/18/23 19:55	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 19:55	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*74*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C5 PFPeA	*71*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 PFHxA	*78*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C4 PFHpA	*94*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C4 PFOA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C5 PFNA	*89*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 PFDA	*77*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 PFUnA	*86*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 PFDoA	*73*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 PFTeDA	*57*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C3 PFBS	*92*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
18O2 PFHxS	*110*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C4 PFOS	*70*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C8 FOSA	*77*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d3-NMeFOSAA	*83*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d5-NEtFOSAA	*85*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d-N-MeFOSA-M	*85*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d-N-EtFOSA-M	*78*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d7-N-MeFOSE-M	*77*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
d9-N-EtFOSE-M	*76*		*10 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
M2-4:2 FTS	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
M2-6:2 FTS	*188*	**5+*	*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C3 HFPO-DA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*
13C2 10:2 FTS	*67*		*25 - 150*	*05/12/23 05:28*	*05/18/23 19:55*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-01
Lab Sample ID: 500-232968-44
Date Collected: 04/25/23 17:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		05/12/23 05:28	05/18/23 20:06	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		05/12/23 05:28	05/18/23 20:06	1
NEtFOSA	<0.81		1.9	0.81	ng/L		05/12/23 05:28	05/18/23 20:06	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/12/23 05:28	05/18/23 20:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		05/12/23 05:28	05/18/23 20:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		05/12/23 05:28	05/18/23 20:06	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:28	05/18/23 20:06	1
NEtFOSE	<0.79		1.9	0.79	ng/L		05/12/23 05:28	05/18/23 20:06	1
4:2 FTS	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 20:06	1
6:2 FTS	<2.3		4.7	2.3	ng/L		05/12/23 05:28	05/18/23 20:06	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/12/23 05:28	05/18/23 20:06	1
DONA	<0.37		1.9	0.37	ng/L		05/12/23 05:28	05/18/23 20:06	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:28	05/18/23 20:06	1
F-53B Major	<0.22		1.9	0.22	ng/L		05/12/23 05:28	05/18/23 20:06	1
F-53B Minor	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 20:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*117*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C5 PFPeA	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C2 PFHxA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C4 PFHpA	*102*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C4 PFOA	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C5 PFNA	*119*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C2 PFDA	*123*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C2 PFUnA	*108*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C2 PFDoA	*105*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C2 PFTeDA	*88*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*
13C3 PFBS	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:06*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-01
Lab Sample ID: 500-232968-44
Date Collected: 04/25/23 17:00
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	96		25 - 150	05/12/23 05:28	05/18/23 20:06	1
13C4 PFOS	116		25 - 150	05/12/23 05:28	05/18/23 20:06	1
13C8 FOSA	113		10 - 150	05/12/23 05:28	05/18/23 20:06	1
d3-NMeFOSAA	111		25 - 150	05/12/23 05:28	05/18/23 20:06	1
d5-NEtFOSAA	114		25 - 150	05/12/23 05:28	05/18/23 20:06	1
d-N-MeFOSA-M	100		10 - 150	05/12/23 05:28	05/18/23 20:06	1
d-N-EtFOSA-M	99		10 - 150	05/12/23 05:28	05/18/23 20:06	1
d7-N-MeFOSE-M	103		10 - 150	05/12/23 05:28	05/18/23 20:06	1
d9-N-EtFOSE-M	105		10 - 150	05/12/23 05:28	05/18/23 20:06	1
M2-4:2 FTS	81		25 - 150	05/12/23 05:28	05/18/23 20:06	1
M2-6:2 FTS	81		25 - 150	05/12/23 05:28	05/18/23 20:06	1
M2-8:2 FTS	96		25 - 150	05/12/23 05:28	05/18/23 20:06	1
13C3 HFPO-DA	108		25 - 150	05/12/23 05:28	05/18/23 20:06	1
13C2 10:2 FTS	79		25 - 150	05/12/23 05:28	05/18/23 20:06	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-01
Lab Sample ID: 500-232968-45
Date Collected: 04/25/23 17:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 16:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 16:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 16:39	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 16:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 16:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 16:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 16:39	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 16:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 16:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 16:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 16:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 16:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 16:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 16:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 16:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 16:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 16:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 16:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 16:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 16:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 16:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 16:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 16:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 16:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 16:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 16:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 16:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 16:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:39	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 16:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 16:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 16:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 16:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 16:39	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 16:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 16:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-01
Lab Sample ID: 500-232968-45
Date Collected: 04/25/23 17:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 16:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 16:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 16:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 16:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 16:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 16:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 16:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 16:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 16:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 16:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*05/05/23 16:39*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/05/23 16:39*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*05/05/23 16:39*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		05/12/23 05:28	05/18/23 20:16	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		05/12/23 05:28	05/18/23 20:16	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/12/23 05:28	05/18/23 20:16	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/12/23 05:28	05/18/23 20:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		05/12/23 05:28	05/18/23 20:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		05/12/23 05:28	05/18/23 20:16	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:28	05/18/23 20:16	1
NEtFOSE	<0.78		1.8	0.78	ng/L		05/12/23 05:28	05/18/23 20:16	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-01
Lab Sample ID: 500-232968-45
Date Collected: 04/25/23 17:05
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 20:16	1
6:2 FTS	<2.3		4.6	2.3	ng/L		05/12/23 05:28	05/18/23 20:16	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/12/23 05:28	05/18/23 20:16	1
DONA	<0.37		1.8	0.37	ng/L		05/12/23 05:28	05/18/23 20:16	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:28	05/18/23 20:16	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 20:16	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 20:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*107*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C5 PFPeA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 PFHxA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C4 PFHpA	*107*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C4 PFOA	*102*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C5 PFNA	*116*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 PFDA	*121*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 PFUnA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 PFDoA	*101*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C3 PFBS	*114*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
18O2 PFHxS	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C4 PFOS	*117*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C8 FOSA	*114*		*10 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d3-NMeFOSAA	*106*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d5-NEtFOSAA	*112*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d-N-MeFOSA-M	*112*		*10 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d-N-EtFOSA-M	*103*		*10 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d7-N-MeFOSE-M	*102*		*10 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
d9-N-EtFOSE-M	*105*		*10 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
M2-4:2 FTS	*79*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
M2-6:2 FTS	*76*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C3 HFPO-DA	*115*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*
13C2 10:2 FTS	*83*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:16*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		05/11/23 09:42	05/11/23 21:20	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82
Lab Sample ID: 500-232968-46
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 21:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 21:02	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 21:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 21:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 21:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 21:02	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 21:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 21:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 21:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 21:02	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.41	ug/L			05/05/23 21:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 21:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 21:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 21:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 21:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 21:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 21:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 21:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 21:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 21:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 21:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 21:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 21:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 21:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 21:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
Naphthalene	**0.34**	**J**	1.0	0.34	ug/L			05/05/23 21:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 21:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:02	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 21:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 21:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 21:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 21:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 21:02	1
trans-1,2-Dichloroethene	**1.6**		1.0	0.35	ug/L			05/05/23 21:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82
Lab Sample ID: 500-232968-46
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 21:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 21:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 21:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 21:02	1
Trichloroethene	**0.27**	**J**	0.50	0.16	ug/L			05/05/23 21:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 21:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 21:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 21:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/05/23 21:02*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/05/23 21:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/05/23 21:02*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 21:02*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82 DUP
Lab Sample ID: 500-232968-47
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 21:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 21:26	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 21:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 21:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 21:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 21:26	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 21:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 21:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 21:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 21:26	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.41	ug/L			05/05/23 21:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 21:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 21:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 21:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 21:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 21:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 21:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 21:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 21:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 21:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 21:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 21:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 21:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 21:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 21:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 21:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 21:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:26	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 21:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 21:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 21:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 21:26	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 21:26	1
trans-1,2-Dichloroethene	**1.6**		1.0	0.35	ug/L			05/05/23 21:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82 DUP
Lab Sample ID: 500-232968-47
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 21:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 21:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 21:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 21:26	1
Trichloroethene	**0.28**	**J**	0.50	0.16	ug/L			05/05/23 21:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 21:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 21:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 21:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/05/23 21:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 21:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 21:26*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 21:26*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-5
Lab Sample ID: 500-232968-48
Date Collected: 04/26/23 07:25
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.37**	**J**	0.50	0.15	ug/L			05/05/23 21:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 21:50	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 21:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 21:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 21:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 21:50	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 21:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 21:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 21:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 21:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 21:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 21:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 21:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 21:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 21:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 21:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 21:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 21:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 21:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 21:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 21:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 21:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 21:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 21:50	1
Ethylbenzene	**5.2**		0.50	0.18	ug/L			05/05/23 21:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 21:50	1
Isopropylbenzene	**17**		1.0	0.39	ug/L			05/05/23 21:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 21:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 21:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
Naphthalene	**9.6**		1.0	0.34	ug/L			05/05/23 21:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
N-Propylbenzene	**17**		1.0	0.41	ug/L			05/05/23 21:50	1
p-Isopropyltoluene	**2.5**		1.0	0.36	ug/L			05/05/23 21:50	1
sec-Butylbenzene	**3.1**		1.0	0.40	ug/L			05/05/23 21:50	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 21:50	1
tert-Butylbenzene	**0.85**	**J**	1.0	0.40	ug/L			05/05/23 21:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 21:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 21:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 21:50	1
Toluene	**0.18**	**J**	0.50	0.15	ug/L			05/05/23 21:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 21:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 21:50	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-5
Lab Sample ID: 500-232968-48
Date Collected: 04/26/23 07:25
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 21:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 21:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 21:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 21:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 21:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 21:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 21:50	1
1,2,4-Trimethylbenzene	**110**		1.0	0.36	ug/L			05/05/23 21:50	1
1,3,5-Trimethylbenzene	**0.92**	**J**	1.0	0.25	ug/L			05/05/23 21:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 21:50	1
Xylenes, Total	**31**		1.0	0.22	ug/L			05/05/23 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*05/05/23 21:50*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/05/23 21:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*05/05/23 21:50*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/05/23 21:50*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-214
Lab Sample ID: 500-232968-49
Date Collected: 04/26/23 10:20
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorohexanoic acid (PFHxA)	**1.3**	**J**	1.9	0.56	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluoroheptanoic acid (PFHpA)	**2.8**		1.9	0.24	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorooctanoic acid (PFOA)	**49**		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		05/12/23 05:28	05/18/23 20:26	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		05/12/23 05:28	05/18/23 20:26	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/12/23 05:28	05/18/23 20:26	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/12/23 05:28	05/18/23 20:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		05/12/23 05:28	05/18/23 20:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		05/12/23 05:28	05/18/23 20:26	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/12/23 05:28	05/18/23 20:26	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/12/23 05:28	05/18/23 20:26	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 20:26	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/12/23 05:28	05/18/23 20:26	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/12/23 05:28	05/18/23 20:26	1
DONA	<0.38		1.9	0.38	ng/L		05/12/23 05:28	05/18/23 20:26	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/12/23 05:28	05/18/23 20:26	1
F-53B Major	<0.23		1.9	0.23	ng/L		05/12/23 05:28	05/18/23 20:26	1
F-53B Minor	<0.31		1.9	0.31	ng/L		05/12/23 05:28	05/18/23 20:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C5 PFPeA	*90*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C2 PFHxA	*107*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C4 PFHpA	*111*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C4 PFOA	*99*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C5 PFNA	*98*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C2 PFDA	*101*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C2 PFUnA	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C2 PFDoA	*82*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*
13C3 PFBS	*103*		*25 - 150*	*05/12/23 05:28*	*05/18/23 20:26*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-214
Lab Sample ID: 500-232968-49
Date Collected: 04/26/23 10:20
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	89		25 - 150	05/12/23 05:28	05/18/23 20:26	1
13C4 PFOS	98		25 - 150	05/12/23 05:28	05/18/23 20:26	1
13C8 FOSA	102		10 - 150	05/12/23 05:28	05/18/23 20:26	1
d3-NMeFOSAA	87		25 - 150	05/12/23 05:28	05/18/23 20:26	1
d5-NEtFOSAA	98		25 - 150	05/12/23 05:28	05/18/23 20:26	1
d-N-MeFOSA-M	97		10 - 150	05/12/23 05:28	05/18/23 20:26	1
d-N-EtFOSA-M	90		10 - 150	05/12/23 05:28	05/18/23 20:26	1
d7-N-MeFOSE-M	88		10 - 150	05/12/23 05:28	05/18/23 20:26	1
d9-N-EtFOSE-M	88		10 - 150	05/12/23 05:28	05/18/23 20:26	1
M2-4:2 FTS	100		25 - 150	05/12/23 05:28	05/18/23 20:26	1
M2-6:2 FTS	103		25 - 150	05/12/23 05:28	05/18/23 20:26	1
M2-8:2 FTS	97		25 - 150	05/12/23 05:28	05/18/23 20:26	1
13C3 HFPO-DA	95		25 - 150	05/12/23 05:28	05/18/23 20:26	1
13C2 10:2 FTS	65		25 - 150	05/12/23 05:28	05/18/23 20:26	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-31
Lab Sample ID: 500-232968-50
Date Collected: 04/26/23 11:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 22:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 22:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 22:13	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 22:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 22:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 22:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 22:13	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 22:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 22:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 22:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 22:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 22:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 22:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 22:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 22:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 22:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 22:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 22:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 22:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 22:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 22:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 22:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 22:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 22:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 22:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 22:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
Naphthalene	**0.57**	**J**	1.0	0.34	ug/L			05/05/23 22:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 22:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:13	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 22:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:13	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 22:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 22:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 22:13	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 22:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 22:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-31
Lab Sample ID: 500-232968-50
Date Collected: 04/26/23 11:15
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 22:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 22:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 22:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 22:13	1
Trichloroethene	**1.2**		0.50	0.16	ug/L			05/05/23 22:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 22:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 22:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 22:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 22:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/05/23 22:13*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*05/05/23 22:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/05/23 22:13*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 22:13*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-48
Lab Sample ID: 500-232968-51
Date Collected: 04/26/23 12:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.2**	**J**	4.6	2.2	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorohexanoic acid (PFHxA)	**5.6**		1.8	0.54	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluoroheptanoic acid (PFHpA)	**31**		1.8	0.23	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorononanoic acid (PFNA)	**1.4**	**J**	1.8	0.25	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J**	1.8	0.53	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorooctanesulfonic acid (PFOS)	**12**	**I**	1.8	0.50	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.8	0.90	ng/L		05/12/23 05:28	05/18/23 21:07	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.8	0.91	ng/L		05/12/23 05:28	05/18/23 21:07	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/12/23 05:28	05/18/23 21:07	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/12/23 05:28	05/18/23 21:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		05/12/23 05:28	05/18/23 21:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		05/12/23 05:28	05/18/23 21:07	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:28	05/18/23 21:07	1
NEtFOSE	<0.79		1.8	0.79	ng/L		05/12/23 05:28	05/18/23 21:07	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 21:07	1
6:2 FTS	<2.3		4.6	2.3	ng/L		05/12/23 05:28	05/18/23 21:07	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/12/23 05:28	05/18/23 21:07	1
DONA	<0.37		1.8	0.37	ng/L		05/12/23 05:28	05/18/23 21:07	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:28	05/18/23 21:07	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/12/23 05:28	05/18/23 21:07	1
F-53B Minor	<0.30		1.8	0.30	ng/L		05/12/23 05:28	05/18/23 21:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*80*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C5 PFPeA	*72*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C2 PFHxA	*79*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C4 PFHpA	*94*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C5 PFNA	*81*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C2 PFDA	*88*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C2 PFUnA	*81*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C2 PFDoA	*73*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C2 PFTeDA	*62*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
13C3 PFBS	*80*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*
18O2 PFHxS	*80*		*25 - 150*	*05/12/23 05:28*	*05/18/23 21:07*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-48
Lab Sample ID: 500-232968-51
Date Collected: 04/26/23 12:35
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	71		25 - 150	05/12/23 05:28	05/18/23 21:07	1
13C8 FOSA	81		10 - 150	05/12/23 05:28	05/18/23 21:07	1
d3-NMeFOSAA	78		25 - 150	05/12/23 05:28	05/18/23 21:07	1
d5-NEtFOSAA	82		25 - 150	05/12/23 05:28	05/18/23 21:07	1
d-N-MeFOSA-M	78		10 - 150	05/12/23 05:28	05/18/23 21:07	1
d-N-EtFOSA-M	73		10 - 150	05/12/23 05:28	05/18/23 21:07	1
d7-N-MeFOSE-M	71		10 - 150	05/12/23 05:28	05/18/23 21:07	1
d9-N-EtFOSE-M	75		10 - 150	05/12/23 05:28	05/18/23 21:07	1
M2-4:2 FTS	94		25 - 150	05/12/23 05:28	05/18/23 21:07	1
M2-6:2 FTS	100		25 - 150	05/12/23 05:28	05/18/23 21:07	1
M2-8:2 FTS	79		25 - 150	05/12/23 05:28	05/18/23 21:07	1
13C3 HFPO-DA	77		25 - 150	05/12/23 05:28	05/18/23 21:07	1
13C2 10:2 FTS	59		25 - 150	05/12/23 05:28	05/18/23 21:07	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1000		9.2	3.9	ng/L		05/12/23 05:28	05/18/23 20:57	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	94		25 - 150	05/12/23 05:28	05/18/23 20:57	5

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-219
Lab Sample ID: 500-232968-52
Date Collected: 04/26/23 13:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 22:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 22:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 22:37	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 22:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 22:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 22:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 22:37	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 22:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 22:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 22:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 22:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 22:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 22:37	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 22:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 22:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 22:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 22:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 22:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 22:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 22:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 22:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 22:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 22:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 22:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 22:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 22:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 22:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 22:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:37	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 22:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 22:37	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 22:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 22:37	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 22:37	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 22:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 22:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-219
Lab Sample ID: 500-232968-52
Date Collected: 04/26/23 13:35
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 22:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 22:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 22:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 22:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 22:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 22:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 22:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 22:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 22:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 22:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/05/23 22:37*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 22:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 22:37*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 22:37*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-04
Lab Sample ID: 500-232968-53
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 17:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 17:03	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			05/05/23 17:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 17:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 17:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 17:03	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 17:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 17:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 17:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 17:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 17:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 17:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 17:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 17:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 17:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 17:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 17:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 17:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 17:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 17:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 17:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 17:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 17:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 17:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 17:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 17:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 17:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:03	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 17:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 17:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 17:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 17:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 17:03	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 17:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 17:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-04
Lab Sample ID: 500-232968-53
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 17:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 17:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 17:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 17:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 17:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 17:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 17:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 17:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 17:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 17:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/05/23 17:03*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*05/05/23 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 17:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/05/23 17:03*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		05/12/23 05:30	05/18/23 20:37	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		05/12/23 05:30	05/18/23 20:37	1
NEtFOSA	<0.78		1.8	0.78	ng/L		05/12/23 05:30	05/18/23 20:37	1
NMeFOSA	<0.39		1.8	0.39	ng/L		05/12/23 05:30	05/18/23 20:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		05/12/23 05:30	05/18/23 20:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		05/12/23 05:30	05/18/23 20:37	1
NMeFOSE	<1.3		3.6	1.3	ng/L		05/12/23 05:30	05/18/23 20:37	1
NEtFOSE	<0.76		1.8	0.76	ng/L		05/12/23 05:30	05/18/23 20:37	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-04
Lab Sample ID: 500-232968-53
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.22		1.8	0.22	ng/L		05/12/23 05:30	05/18/23 20:37	1
6:2 FTS	<2.2		4.5	2.2	ng/L		05/12/23 05:30	05/18/23 20:37	1
8:2 FTS	<0.41		1.8	0.41	ng/L		05/12/23 05:30	05/18/23 20:37	1
DONA	<0.36		1.8	0.36	ng/L		05/12/23 05:30	05/18/23 20:37	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		05/12/23 05:30	05/18/23 20:37	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/12/23 05:30	05/18/23 20:37	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/12/23 05:30	05/18/23 20:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*111*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C5 PFPeA	*116*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 PFHxA	*110*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C4 PFHpA	*108*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C5 PFNA	*118*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 PFDA	*131*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 PFUnA	*123*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 PFDoA	*112*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 PFTeDA	*100*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C3 PFBS	*117*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
18O2 PFHxS	*103*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C4 PFOS	*127*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C8 FOSA	*122*		*10 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d3-NMeFOSAA	*120*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d5-NEtFOSAA	*121*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d-N-MeFOSA-M	*112*		*10 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d-N-EtFOSA-M	*103*		*10 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d7-N-MeFOSE-M	*113*		*10 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
d9-N-EtFOSE-M	*112*		*10 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
M2-4:2 FTS	*73*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
M2-6:2 FTS	*87*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
M2-8:2 FTS	*110*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C3 HFPO-DA	*118*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*
13C2 10:2 FTS	*85*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:37*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-04
Lab Sample ID: 500-232968-54
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		05/12/23 05:30	05/18/23 20:47	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		05/12/23 05:30	05/18/23 20:47	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/12/23 05:30	05/18/23 20:47	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/12/23 05:30	05/18/23 20:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		05/12/23 05:30	05/18/23 20:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		05/12/23 05:30	05/18/23 20:47	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/12/23 05:30	05/18/23 20:47	1
NEtFOSE	<0.78		1.8	0.78	ng/L		05/12/23 05:30	05/18/23 20:47	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/12/23 05:30	05/18/23 20:47	1
6:2 FTS	<2.3		4.6	2.3	ng/L		05/12/23 05:30	05/18/23 20:47	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/12/23 05:30	05/18/23 20:47	1
DONA	<0.37		1.8	0.37	ng/L		05/12/23 05:30	05/18/23 20:47	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/12/23 05:30	05/18/23 20:47	1
F-53B Major	<0.22		1.8	0.22	ng/L		05/12/23 05:30	05/18/23 20:47	1
F-53B Minor	<0.29		1.8	0.29	ng/L		05/12/23 05:30	05/18/23 20:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C5 PFPeA	*113*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C2 PFHxA	*123*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C4 PFHpA	*130*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C4 PFOA	*104*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C5 PFNA	*134*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C2 PFDA	*133*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C2 PFUnA	*114*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C2 PFDoA	*118*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C2 PFTeDA	*99*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*
13C3 PFBS	*120*		*25 - 150*	*05/12/23 05:30*	*05/18/23 20:47*	*1*

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-04
Lab Sample ID: 500-232968-54
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	105		25 - 150	05/12/23 05:30	05/18/23 20:47	1
13C4 PFOS	128		25 - 150	05/12/23 05:30	05/18/23 20:47	1
13C8 FOSA	125		10 - 150	05/12/23 05:30	05/18/23 20:47	1
d3-NMeFOSAA	119		25 - 150	05/12/23 05:30	05/18/23 20:47	1
d5-NEtFOSAA	125		25 - 150	05/12/23 05:30	05/18/23 20:47	1
d-N-MeFOSA-M	118		10 - 150	05/12/23 05:30	05/18/23 20:47	1
d-N-EtFOSA-M	107		10 - 150	05/12/23 05:30	05/18/23 20:47	1
d7-N-MeFOSE-M	116		10 - 150	05/12/23 05:30	05/18/23 20:47	1
d9-N-EtFOSE-M	117		10 - 150	05/12/23 05:30	05/18/23 20:47	1
M2-4:2 FTS	80		25 - 150	05/12/23 05:30	05/18/23 20:47	1
M2-6:2 FTS	78		25 - 150	05/12/23 05:30	05/18/23 20:47	1
M2-8:2 FTS	105		25 - 150	05/12/23 05:30	05/18/23 20:47	1
13C3 HFPO-DA	123		25 - 150	05/12/23 05:30	05/18/23 20:47	1
13C2 10:2 FTS	88		25 - 150	05/12/23 05:30	05/18/23 20:47	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-3
Lab Sample ID: 500-232968-55
Date Collected: 04/26/23 15:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 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			05/05/23 23:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 23:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 23:01	1
Bromoform	<0.48	F1 *+	1.0	0.48	ug/L			05/05/23 23:01	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 23:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 23:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 23:01	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 23:01	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 23:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 23:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 23:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 23:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 23:01	1
Dibromochloromethane	<0.49	F1	1.0	0.49	ug/L			05/05/23 23:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 23:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 23:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 23:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 23:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 23:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 23:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 23:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 23:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 23:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 23:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 23:01	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 23:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 23:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 23:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 23:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 23:01	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 23:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 23:01	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 23:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 23:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 23:01	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 23:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 23:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-3
Lab Sample ID: 500-232968-55
Date Collected: 04/26/23 15:00
Matrix: Water
Date Received: 04/28/23 09:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 23:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 23:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 23:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 23:01	1
Trichloroethene	**5.3**		0.50	0.16	ug/L			05/05/23 23:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 23:01	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 23:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 23:01	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 23:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 23:01	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/05/23 23:01*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*05/05/23 23:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*05/05/23 23:01*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/05/23 23:01*	*1*

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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 Semi VOA

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

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
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.
F2	MS/MSD RPD exceeds control limits
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
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
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

Glossary (Continued)

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

GC/MS VOA

Analysis Batch: 711659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-4	EB-5	Total/NA	Water	8260B	
500-232968-20	MW-19	Total/NA	Water	8260B	
500-232968-21	MW-37	Total/NA	Water	8260B	
500-232968-23	MW-8	Total/NA	Water	8260B	
500-232968-24	AECOM MW-19	Total/NA	Water	8260B	
500-232968-25	MW-16	Total/NA	Water	8260B	
500-232968-26	EB-03	Total/NA	Water	8260B	
500-232968-33	MW-19 DUP	Total/NA	Water	8260B	
500-232968-34	EB-06	Total/NA	Water	8260B	
500-232968-36	TRIP BLANK	Total/NA	Water	8260B	
500-232968-37	MW-209	Total/NA	Water	8260B	
500-232968-43	MW-213	Total/NA	Water	8260B	
500-232968-43 - DL	MW-213	Total/NA	Water	8260B	
500-232968-45	EB-01	Total/NA	Water	8260B	
500-232968-46	MW-82	Total/NA	Water	8260B	
500-232968-47	MW-82 DUP	Total/NA	Water	8260B	
500-232968-48	MW-5	Total/NA	Water	8260B	
500-232968-50	MW-31	Total/NA	Water	8260B	
500-232968-52	MW-219	Total/NA	Water	8260B	
500-232968-53	EB-04	Total/NA	Water	8260B	
500-232968-55	MW-3	Total/NA	Water	8260B	
MB 500-711659/8	Method Blank	Total/NA	Water	8260B	
LCS 500-711659/5	Lab Control Sample	Total/NA	Water	8260B	
500-232968-55 MS	MW-3	Total/NA	Water	8260B	
500-232968-55 MSD	MW-3	Total/NA	Water	8260B	

Analysis Batch: 711833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-2	MW-121	Total/NA	Water	8260B	
500-232968-3	MW-121 DUP	Total/NA	Water	8260B	
500-232968-26	EB-03	Total/NA	Water	8260B	
500-232968-28	MW-17	Total/NA	Water	8260B	
MB 500-711833/8	Method Blank	Total/NA	Water	8260B	
LCS 500-711833/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 711891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-2 - DL	MW-121	Total/NA	Water	8260B	
500-232968-3 - DL	MW-121 DUP	Total/NA	Water	8260B	
500-232968-29	MW-15	Total/NA	Water	8260B	
500-232968-29 - DL	MW-15	Total/NA	Water	8260B	
500-232968-32	MW-9	Total/NA	Water	8260B	
MB 500-711891/8	Method Blank	Total/NA	Water	8260B	
LCS 500-711891/5	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 711439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-17	MW-233	Total/NA	Water	3510C	
500-232968-18	MW-60	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 711439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-19	MW-67	Total/NA	Water	3510C	
500-232968-20	MW-19	Total/NA	Water	3510C	
500-232968-21	MW-37	Total/NA	Water	3510C	
500-232968-22	MW-6	Total/NA	Water	3510C	
500-232968-26	EB-03	Total/NA	Water	3510C	
500-232968-33	MW-19 DUP	Total/NA	Water	3510C	
MB 500-711439/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-711439/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-711439/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 711639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-17	MW-233	Total/NA	Water	8082A	711439
500-232968-18	MW-60	Total/NA	Water	8082A	711439
500-232968-19	MW-67	Total/NA	Water	8082A	711439
500-232968-20	MW-19	Total/NA	Water	8082A	711439
500-232968-21	MW-37	Total/NA	Water	8082A	711439
500-232968-22	MW-6	Total/NA	Water	8082A	711439
500-232968-26	EB-03	Total/NA	Water	8082A	711439
500-232968-33	MW-19 DUP	Total/NA	Water	8082A	711439
MB 500-711439/1-A	Method Blank	Total/NA	Water	8082A	711439
LCS 500-711439/2-A	Lab Control Sample	Total/NA	Water	8082A	711439
LCSD 500-711439/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	711439

LCMS

Prep Batch: 672361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-1	AMEC MW-17	Total/NA	Water	3535	
500-232968-4	EB-5	Total/NA	Water	3535	
500-232968-5	FB-5	Total/NA	Water	3535	
500-232968-6	AMEC MW-15	Total/NA	Water	3535	
500-232968-7	MW-235	Total/NA	Water	3535	
500-232968-8	MW-236	Total/NA	Water	3535	
500-232968-9	PZ-226	Total/NA	Water	3535	
500-232968-10	PZ-226 DUP	Total/NA	Water	3535	
500-232968-11	MW-226	Total/NA	Water	3535	
500-232968-12	MW-226 DUP	Total/NA	Water	3535	
500-232968-13 - DL	AMEC MW-16	Total/NA	Water	3535	
500-232968-13	AMEC MW-16	Total/NA	Water	3535	
500-232968-14	AMEC MW-16A	Total/NA	Water	3535	
500-232968-15	FB-2	Total/NA	Water	3535	
MB 320-672361/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-672361/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-672361/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 672918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-16	EB-2	Total/NA	Water	3535	
500-232968-27	PZ-206	Total/NA	Water	3535	
500-232968-30	MW-12	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 672918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-31	MW-12 DUP	Total/NA	Water	3535	
MB 320-672918/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-672918/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-672918/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 673606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-27	PZ-206	Total/NA	Water	537 (modified)	672918
MB 320-672918/1-A	Method Blank	Total/NA	Water	537 (modified)	672918
LCS 320-672918/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	672918
LCSD 320-672918/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	672918

Analysis Batch: 673612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-1	AMEC MW-17	Total/NA	Water	537 (modified)	672361
500-232968-4	EB-5	Total/NA	Water	537 (modified)	672361
500-232968-6	AMEC MW-15	Total/NA	Water	537 (modified)	672361
500-232968-7	MW-235	Total/NA	Water	537 (modified)	672361
500-232968-8	MW-236	Total/NA	Water	537 (modified)	672361
500-232968-9	PZ-226	Total/NA	Water	537 (modified)	672361
500-232968-10	PZ-226 DUP	Total/NA	Water	537 (modified)	672361
500-232968-11	MW-226	Total/NA	Water	537 (modified)	672361
500-232968-12	MW-226 DUP	Total/NA	Water	537 (modified)	672361
500-232968-13	AMEC MW-16	Total/NA	Water	537 (modified)	672361
500-232968-14	AMEC MW-16A	Total/NA	Water	537 (modified)	672361
500-232968-15	FB-2	Total/NA	Water	537 (modified)	672361
MB 320-672361/1-A	Method Blank	Total/NA	Water	537 (modified)	672361
LCS 320-672361/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	672361
LCSD 320-672361/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	672361

Analysis Batch: 673927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-13 - DL	AMEC MW-16	Total/NA	Water	537 (modified)	672361
500-232968-16	EB-2	Total/NA	Water	537 (modified)	672918
500-232968-30	MW-12	Total/NA	Water	537 (modified)	672918
500-232968-31	MW-12 DUP	Total/NA	Water	537 (modified)	672918

Prep Batch: 674232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-32	MW-9	Total/NA	Water	3535	
500-232968-32 - DL	MW-9	Total/NA	Water	3535	
500-232968-34	EB-06	Total/NA	Water	3535	
500-232968-35	FB-06	Total/NA	Water	3535	
500-232968-37	MW-209	Total/NA	Water	3535	
500-232968-38	MW-200	Total/NA	Water	3535	
500-232968-39	PZ-200	Total/NA	Water	3535	
500-232968-40	MW-201	Total/NA	Water	3535	
500-232968-41	AMEC MW-14	Total/NA	Water	3535	
500-232968-42	MW-204	Total/NA	Water	3535	
500-232968-43	MW-213	Total/NA	Water	3535	
500-232968-44	FB-01	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 674232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-45	EB-01	Total/NA	Water	3535	
500-232968-49	PZ-214	Total/NA	Water	3535	
500-232968-51	MW-48	Total/NA	Water	3535	
500-232968-51 - DL	MW-48	Total/NA	Water	3535	
500-232968-53	EB-04	Total/NA	Water	3535	
500-232968-54	FB-04	Total/NA	Water	3535	
MB 320-674232/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-674232/2-A	Lab Control Sample	Total/NA	Water	3535	
500-232968-32 MS	MW-9	Total/NA	Water	3535	
500-232968-32 MS - DL	MW-9	Total/NA	Water	3535	
500-232968-32 MSD	MW-9	Total/NA	Water	3535	
500-232968-32 MSD - DL	MW-9	Total/NA	Water	3535	

Analysis Batch: 674357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-5	FB-5	Total/NA	Water	537 (modified)	672361

Prep Batch: 675026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-30 - RE	MW-12	Total/NA	Water	3535	
500-232968-31 - RE	MW-12 DUP	Total/NA	Water	3535	
MB 320-675026/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-675026/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 675123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-30 - RE	MW-12	Total/NA	Water	537 (modified)	675026
500-232968-31 - RE	MW-12 DUP	Total/NA	Water	537 (modified)	675026
MB 320-675026/1-A	Method Blank	Total/NA	Water	537 (modified)	675026
LCS 320-675026/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	675026

Analysis Batch: 675720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-32 - DL	MW-9	Total/NA	Water	537 (modified)	674232
500-232968-32	MW-9	Total/NA	Water	537 (modified)	674232
500-232968-34	EB-06	Total/NA	Water	537 (modified)	674232
500-232968-35	FB-06	Total/NA	Water	537 (modified)	674232
500-232968-37	MW-209	Total/NA	Water	537 (modified)	674232
500-232968-38	MW-200	Total/NA	Water	537 (modified)	674232
500-232968-39	PZ-200	Total/NA	Water	537 (modified)	674232
500-232968-40	MW-201	Total/NA	Water	537 (modified)	674232
500-232968-41	AMEC MW-14	Total/NA	Water	537 (modified)	674232
500-232968-42	MW-204	Total/NA	Water	537 (modified)	674232
500-232968-43	MW-213	Total/NA	Water	537 (modified)	674232
500-232968-44	FB-01	Total/NA	Water	537 (modified)	674232
500-232968-45	EB-01	Total/NA	Water	537 (modified)	674232
500-232968-49	PZ-214	Total/NA	Water	537 (modified)	674232
500-232968-51 - DL	MW-48	Total/NA	Water	537 (modified)	674232
500-232968-51	MW-48	Total/NA	Water	537 (modified)	674232
500-232968-53	EB-04	Total/NA	Water	537 (modified)	674232
500-232968-54	FB-04	Total/NA	Water	537 (modified)	674232

LCMS (Continued)

Analysis Batch: 675720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-674232/1-A	Method Blank	Total/NA	Water	537 (modified)	674232
LCS 320-674232/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	674232
500-232968-32 MS - DL	MW-9	Total/NA	Water	537 (modified)	674232
500-232968-32 MS	MW-9	Total/NA	Water	537 (modified)	674232
500-232968-32 MSD - DL	MW-9	Total/NA	Water	537 (modified)	674232
500-232968-32 MSD	MW-9	Total/NA	Water	537 (modified)	674232

Prep Batch: 676606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-32 - RE	MW-9	Total/NA	Water	3535	
MB 320-676606/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-676606/2-A	Lab Control Sample	Total/NA	Water	3535	
500-232968-32 MS - RE	MW-9	Total/NA	Water	3535	
500-232968-32 MSD - RE	MW-9	Total/NA	Water	3535	

Analysis Batch: 676866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-32 - RE	MW-9	Total/NA	Water	537 (modified)	676606
MB 320-676606/1-A	Method Blank	Total/NA	Water	537 (modified)	676606
LCS 320-676606/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	676606
500-232968-32 MS - RE	MW-9	Total/NA	Water	537 (modified)	676606
500-232968-32 MSD - RE	MW-9	Total/NA	Water	537 (modified)	676606

Metals

Prep Batch: 712697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-1	AMEC MW-17	Dissolved	Water	3005A	
500-232968-4	EB-5	Dissolved	Water	3005A	
500-232968-18	MW-60	Dissolved	Water	3005A	
500-232968-20	MW-19	Dissolved	Water	3005A	
500-232968-22	MW-6	Dissolved	Water	3005A	
500-232968-26	EB-03	Dissolved	Water	3005A	
500-232968-30	MW-12	Dissolved	Water	3005A	
500-232968-31	MW-12 DUP	Dissolved	Water	3005A	
500-232968-33	MW-19 DUP	Dissolved	Water	3005A	
500-232968-34	EB-06	Dissolved	Water	3005A	
500-232968-41	AMEC MW-14	Dissolved	Water	3005A	
500-232968-45	EB-01	Dissolved	Water	3005A	
MB 500-712697/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-712697/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-232968-1 MS	AMEC MW-17	Dissolved	Water	3005A	
500-232968-1 MSD	AMEC MW-17	Dissolved	Water	3005A	
500-232968-1 DU	AMEC MW-17	Dissolved	Water	3005A	

Analysis Batch: 712962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-1	AMEC MW-17	Dissolved	Water	6020A	712697
500-232968-4	EB-5	Dissolved	Water	6020A	712697
500-232968-18	MW-60	Dissolved	Water	6020A	712697
500-232968-20	MW-19	Dissolved	Water	6020A	712697

Metals (Continued)

Analysis Batch: 712962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-22	MW-6	Dissolved	Water	6020A	712697
500-232968-26	EB-03	Dissolved	Water	6020A	712697
500-232968-30	MW-12	Dissolved	Water	6020A	712697
500-232968-31	MW-12 DUP	Dissolved	Water	6020A	712697
500-232968-33	MW-19 DUP	Dissolved	Water	6020A	712697
500-232968-34	EB-06	Dissolved	Water	6020A	712697
500-232968-41	AMEC MW-14	Dissolved	Water	6020A	712697
500-232968-45	EB-01	Dissolved	Water	6020A	712697
MB 500-712697/1-A	Method Blank	Total Recoverable	Water	6020A	712697
LCS 500-712697/2-A	Lab Control Sample	Total Recoverable	Water	6020A	712697
500-232968-1 MS	AMEC MW-17	Dissolved	Water	6020A	712697
500-232968-1 MSD	AMEC MW-17	Dissolved	Water	6020A	712697
500-232968-1 DU	AMEC MW-17	Dissolved	Water	6020A	712697

Analysis Batch: 713284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232968-30	MW-12	Dissolved	Water	6020A	712697
500-232968-31	MW-12 DUP	Dissolved	Water	6020A	712697
500-232968-34	EB-06	Dissolved	Water	6020A	712697
MB 500-712697/1-A	Method Blank	Total Recoverable	Water	6020A	712697
LCS 500-712697/2-A	Lab Control Sample	Total Recoverable	Water	6020A	712697

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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)
500-232968-2	MW-121	103	97	93	94
500-232968-2 - DL	MW-121	104	101	98	93
500-232968-3	MW-121 DUP	105	95	95	95
500-232968-3 - DL	MW-121 DUP	106	100	97	92
500-232968-4	EB-5	106	100	98	102
500-232968-20	MW-19	105	99	99	100
500-232968-21	MW-37	108	98	97	101
500-232968-23	MW-8	111	101	99	101
500-232968-24	AECOM MW-19	107	100	101	99
500-232968-25	MW-16	109	101	98	100
500-232968-26	EB-03	107	101	100	99
500-232968-26	EB-03	104	99	96	95
500-232968-28	MW-17	105	100	97	96
500-232968-29	MW-15	108	99	98	93
500-232968-29 - DL	MW-15	109	102	99	94
500-232968-32	MW-9	106	98	97	94
500-232968-33	MW-19 DUP	111	103	102	103
500-232968-34	EB-06	107	101	99	100
500-232968-36	TRIP BLANK	107	97	96	101
500-232968-37	MW-209	110	102	98	101
500-232968-43	MW-213	102	97	96	101
500-232968-43 - DL	MW-213	107	98	96	101
500-232968-45	EB-01	105	100	97	98
500-232968-46	MW-82	108	101	97	100
500-232968-47	MW-82 DUP	106	100	98	100
500-232968-48	MW-5	110	99	100	99
500-232968-50	MW-31	108	98	97	101
500-232968-52	MW-219	107	100	98	101
500-232968-53	EB-04	108	99	98	101
500-232968-55	MW-3	106	100	101	100
500-232968-55 MS	MW-3	109	96	97	101
500-232968-55 MSD	MW-3	109	97	94	102
LCS 500-711659/5	Lab Control Sample	103	95	93	102
LCS 500-711833/5	Lab Control Sample	106	95	90	95
LCS 500-711891/5	Lab Control Sample	107	96	92	94
MB 500-711659/8	Method Blank	111	103	98	102
MB 500-711833/8	Method Blank	107	102	102	94
MB 500-711891/8	Method Blank	104	101	98	93

Surrogate Legend

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

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (30-120)	DCBP1 (30-140)								
500-232968-17	MW-233	66	82								
500-232968-18	MW-60	65	81								
500-232968-19	MW-67	72	88								
500-232968-20	MW-19	78	99								
500-232968-21	MW-37	74	81								
500-232968-22	MW-6	71	66								
500-232968-26	EB-03	64	67								
500-232968-33	MW-19 DUP	62	90								
LCS 500-711439/2-A	Lab Control Sample	80	86								
LCSD 500-711439/3-A	Lab Control Sample Dup	90	99								
MB 500-711439/1-A	Method Blank	84	93								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 500-711659/8
Matrix: Water
Analysis Batch: 711659

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			05/05/23 14:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/05/23 14:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/05/23 14:41	1
Bromoform	<0.48		1.0	0.48	ug/L			05/05/23 14:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/05/23 14:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/05/23 14:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/05/23 14:41	1
Chloroform	<0.37		2.0	0.37	ug/L			05/05/23 14:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/05/23 14:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/05/23 14:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/05/23 14:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/05/23 14:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/05/23 14:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/05/23 14:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/05/23 14:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/05/23 14:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/05/23 14:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/05/23 14:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/05/23 14:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/05/23 14:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/05/23 14:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/05/23 14:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/05/23 14:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/05/23 14:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/05/23 14:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/05/23 14:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/05/23 14:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/05/23 14:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/05/23 14:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 14:41	1
Styrene	<0.39		1.0	0.39	ug/L			05/05/23 14:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/05/23 14:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/05/23 14:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/05/23 14:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/05/23 14:41	1
Toluene	<0.15		0.50	0.15	ug/L			05/05/23 14:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/05/23 14:41	1

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

Lab Sample ID: MB 500-711659/8
Matrix: Water
Analysis Batch: 711659

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/05/23 14:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/05/23 14:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/05/23 14:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/05/23 14:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/05/23 14:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/05/23 14:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/05/23 14:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/05/23 14:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/05/23 14:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/05/23 14:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/05/23 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*05/05/23 14:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*05/05/23 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/05/23 14:41*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/05/23 14:41*	*1*

Lab Sample ID: LCS 500-711659/5
Matrix: Water
Analysis Batch: 711659

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	49.2		ug/L		98	70 - 120
Bromobenzene	50.0	52.6		ug/L		105	70 - 122
Bromochloromethane	50.0	48.4		ug/L		97	65 - 122
Bromodichloromethane	50.0	54.8		ug/L		110	69 - 120
Bromoform	50.0	68.8	*+	ug/L		138	56 - 132
Bromomethane	50.0	71.5		ug/L		143	40 - 152
Carbon tetrachloride	50.0	51.8		ug/L		104	59 - 133
Chlorobenzene	50.0	54.0		ug/L		108	70 - 120
Chloroethane	50.0	55.8		ug/L		112	48 - 136
Chloroform	50.0	49.1		ug/L		98	70 - 120
Chloromethane	50.0	57.0		ug/L		114	56 - 152
2-Chlorotoluene	50.0	53.5		ug/L		107	70 - 125
4-Chlorotoluene	50.0	54.2		ug/L		108	68 - 124
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 125
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	64 - 127
Dibromochloromethane	50.0	62.4		ug/L		125	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	53.6		ug/L		107	56 - 123
1,2-Dibromoethane	50.0	54.9		ug/L		110	70 - 125
Dibromomethane	50.0	49.3		ug/L		99	70 - 120
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 125
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 120
Dichlorodifluoromethane	50.0	48.7		ug/L		97	40 - 159
1,1-Dichloroethane	50.0	53.7		ug/L		107	70 - 125

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

Lab Sample ID: LCS 500-711659/5
Matrix: Water
Analysis Batch: 711659

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	50.4		ug/L		101	68 - 127
1,1-Dichloroethene	50.0	52.8		ug/L		106	67 - 122
1,2-Dichloropropane	50.0	54.9		ug/L		110	67 - 130
1,3-Dichloropropane	50.0	55.1		ug/L		110	62 - 136
2,2-Dichloropropane	50.0	40.2		ug/L		80	58 - 139
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 121
Ethylbenzene	50.0	53.3		ug/L		107	70 - 123
Hexachlorobutadiene	50.0	43.5		ug/L		87	51 - 150
Isopropylbenzene	50.0	52.7		ug/L		105	70 - 126
Methylene Chloride	50.0	52.5		ug/L		105	69 - 125
Methyl tert-butyl ether	50.0	38.9		ug/L		78	55 - 123
Naphthalene	50.0	41.7		ug/L		83	53 - 144
n-Butylbenzene	50.0	53.0		ug/L		106	68 - 125
N-Propylbenzene	50.0	55.6		ug/L		111	69 - 127
p-Isopropyltoluene	50.0	54.9		ug/L		110	70 - 125
sec-Butylbenzene	50.0	53.2		ug/L		106	70 - 123
Styrene	50.0	55.9		ug/L		112	70 - 120
tert-Butylbenzene	50.0	54.6		ug/L		109	70 - 121
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/L		111	70 - 125
1,1,2,2-Tetrachloroethane	50.0	57.4		ug/L		115	62 - 140
Tetrachloroethene	50.0	51.6		ug/L		103	70 - 128
Toluene	50.0	54.2		ug/L		108	70 - 125
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	57.2		ug/L		114	62 - 128
1,2,3-Trichlorobenzene	50.0	38.6		ug/L		77	51 - 145
1,2,4-Trichlorobenzene	50.0	41.6		ug/L		83	57 - 137
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	70 - 125
1,1,2-Trichloroethane	50.0	55.1		ug/L		110	71 - 130
Trichloroethene	50.0	48.5		ug/L		97	70 - 125
Trichlorofluoromethane	50.0	48.9		ug/L		98	55 - 128
1,2,3-Trichloropropane	50.0	55.2		ug/L		110	50 - 133
1,2,4-Trimethylbenzene	50.0	53.7		ug/L		107	70 - 123
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	70 - 123
Vinyl chloride	50.0	50.5		ug/L		101	64 - 126
Xylenes, Total	100	109		ug/L		109	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*95*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: 500-232968-55 MS
Matrix: Water
Analysis Batch: 711659

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.15		50.0	50.5		ug/L		101	70 - 120

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

Lab Sample ID: 500-232968-55 MS
Matrix: Water
Analysis Batch: 711659

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	<0.36		50.0	56.4		ug/L		113	70 - 122
Bromochloromethane	<0.43		50.0	50.4		ug/L		101	65 - 122
Bromodichloromethane	<0.37		50.0	56.3		ug/L		113	69 - 120
Bromoform	<0.48	F1 *+	50.0	70.5	F1	ug/L		141	56 - 132
Bromomethane	<0.80		50.0	64.4		ug/L		129	40 - 152
Carbon tetrachloride	<0.38		50.0	53.3		ug/L		107	59 - 133
Chlorobenzene	<0.39		50.0	54.1		ug/L		108	70 - 120
Chloroethane	<0.51		50.0	53.8		ug/L		108	48 - 136
Chloroform	<0.37		50.0	50.3		ug/L		101	70 - 120
Chloromethane	<0.32		50.0	53.5		ug/L		107	56 - 152
2-Chlorotoluene	<0.31		50.0	55.5		ug/L		111	70 - 125
4-Chlorotoluene	<0.35		50.0	55.6		ug/L		111	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	51.0		ug/L		102	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	54.0		ug/L		108	64 - 127
Dibromochloromethane	<0.49	F1	50.0	63.9	F1	ug/L		128	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	59.3		ug/L		119	56 - 123
1,2-Dibromoethane	<0.39		50.0	55.8		ug/L		112	70 - 125
Dibromomethane	<0.27		50.0	50.4		ug/L		101	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	53.8		ug/L		108	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	52.2		ug/L		104	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	52.7		ug/L		105	70 - 120
Dichlorodifluoromethane	<0.67		50.0	45.5		ug/L		91	40 - 159
1,1-Dichloroethane	<0.41		50.0	54.7		ug/L		109	70 - 125
1,2-Dichloroethane	<0.39		50.0	52.8		ug/L		106	68 - 127
1,1-Dichloroethene	<0.39		50.0	53.3		ug/L		107	67 - 122
1,2-Dichloropropane	<0.43		50.0	56.4		ug/L		113	67 - 130
1,3-Dichloropropane	<0.36		50.0	56.6		ug/L		113	62 - 136
2,2-Dichloropropane	<0.44		50.0	41.4		ug/L		83	58 - 139
1,1-Dichloropropene	<0.30		50.0	51.4		ug/L		103	70 - 121
Ethylbenzene	<0.18		50.0	53.3		ug/L		107	70 - 123
Hexachlorobutadiene	<0.45		50.0	44.5		ug/L		89	51 - 150
Isopropylbenzene	<0.39		50.0	54.6		ug/L		109	70 - 126
Methylene Chloride	<1.6		50.0	53.1		ug/L		106	69 - 125
Methyl tert-butyl ether	<0.39		50.0	38.8		ug/L		78	55 - 123
Naphthalene	<0.34		50.0	43.1		ug/L		86	53 - 144
n-Butylbenzene	<0.39		50.0	51.9		ug/L		104	68 - 125
N-Propylbenzene	<0.41		50.0	56.8		ug/L		114	69 - 127
p-Isopropyltoluene	<0.36		50.0	55.7		ug/L		111	70 - 125
sec-Butylbenzene	<0.40		50.0	55.4		ug/L		111	70 - 123
Styrene	<0.39		50.0	56.0		ug/L		112	70 - 120
tert-Butylbenzene	<0.40		50.0	56.8		ug/L		114	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	57.0		ug/L		114	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	62.0		ug/L		124	62 - 140
Tetrachloroethene	<0.37		50.0	50.8		ug/L		102	70 - 128
Toluene	<0.15		50.0	55.1		ug/L		110	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	51.2		ug/L		102	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	56.3		ug/L		113	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	40.2		ug/L		80	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	39.8		ug/L		80	57 - 137

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

Lab Sample ID: 500-232968-55 MS
Matrix: Water
Analysis Batch: 711659

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.38		50.0	47.2		ug/L		94	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	57.4		ug/L		115	71 - 130
Trichloroethene	5.3		50.0	54.6		ug/L		99	70 - 125
Trichlorofluoromethane	<0.43		50.0	45.0		ug/L		90	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	59.7		ug/L		119	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	55.3		ug/L		111	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	55.2		ug/L		110	70 - 123
Vinyl chloride	<0.20		50.0	46.9		ug/L		94	64 - 126
Xylenes, Total	<0.22		100	109		ug/L		109	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-232968-55 MSD
Matrix: Water
Analysis Batch: 711659

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.15		50.0	51.4		ug/L		103	70 - 120	2	20
Bromobenzene	<0.36		50.0	58.1		ug/L		116	70 - 122	3	20
Bromochloromethane	<0.43		50.0	51.5		ug/L		103	65 - 122	2	20
Bromodichloromethane	<0.37		50.0	58.3		ug/L		117	69 - 120	4	20
Bromoform	<0.48	F1 *+	50.0	72.4	F1	ug/L		145	56 - 132	3	20
Bromomethane	<0.80		50.0	74.8		ug/L		150	40 - 152	15	20
Carbon tetrachloride	<0.38		50.0	53.4		ug/L		107	59 - 133	0	20
Chlorobenzene	<0.39		50.0	55.7		ug/L		111	70 - 120	3	20
Chloroethane	<0.51		50.0	58.8		ug/L		118	48 - 136	9	20
Chloroform	<0.37		50.0	51.6		ug/L		103	70 - 120	2	20
Chloromethane	<0.32		50.0	57.8		ug/L		116	56 - 152	8	20
2-Chlorotoluene	<0.31		50.0	56.5		ug/L		113	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	56.6		ug/L		113	68 - 124	2	20
cis-1,2-Dichloroethene	<0.41		50.0	52.8		ug/L		106	70 - 125	4	20
cis-1,3-Dichloropropene	<0.42		50.0	56.5		ug/L		113	64 - 127	4	20
Dibromochloromethane	<0.49	F1	50.0	66.1	F1	ug/L		132	68 - 125	3	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	60.2		ug/L		120	56 - 123	1	20
1,2-Dibromoethane	<0.39		50.0	57.6		ug/L		115	70 - 125	3	20
Dibromomethane	<0.27		50.0	52.0		ug/L		104	70 - 120	3	20
1,2-Dichlorobenzene	<0.33		50.0	54.8		ug/L		110	70 - 125	2	20
1,3-Dichlorobenzene	<0.40		50.0	52.7		ug/L		105	70 - 125	1	20
1,4-Dichlorobenzene	<0.36		50.0	53.0		ug/L		106	70 - 120	1	20
Dichlorodifluoromethane	<0.67		50.0	46.9		ug/L		94	40 - 159	3	20
1,1-Dichloroethane	<0.41		50.0	55.4		ug/L		111	70 - 125	1	20
1,2-Dichloroethane	<0.39		50.0	53.4		ug/L		107	68 - 127	1	20
1,1-Dichloroethene	<0.39		50.0	52.3		ug/L		105	67 - 122	2	20
1,2-Dichloropropane	<0.43		50.0	57.5		ug/L		115	67 - 130	2	20

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

Lab Sample ID: 500-232968-55 MSD
Matrix: Water
Analysis Batch: 711659

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichloropropane	<0.36		50.0	58.3		ug/L		117	62 - 136	3	20
2,2-Dichloropropane	<0.44		50.0	43.8		ug/L		88	58 - 139	6	20
1,1-Dichloropropene	<0.30		50.0	51.3		ug/L		103	70 - 121	0	20
Ethylbenzene	<0.18		50.0	54.7		ug/L		109	70 - 123	3	20
Hexachlorobutadiene	<0.45		50.0	42.1		ug/L		84	51 - 150	5	20
Isopropylbenzene	<0.39		50.0	55.7		ug/L		111	70 - 126	2	20
Methylene Chloride	<1.6		50.0	55.6		ug/L		111	69 - 125	5	20
Methyl tert-butyl ether	<0.39		50.0	40.0		ug/L		80	55 - 123	3	20
Naphthalene	<0.34		50.0	43.2		ug/L		86	53 - 144	0	20
n-Butylbenzene	<0.39		50.0	50.3		ug/L		101	68 - 125	3	20
N-Propylbenzene	<0.41		50.0	57.6		ug/L		115	69 - 127	1	20
p-Isopropyltoluene	<0.36		50.0	55.7		ug/L		111	70 - 125	0	20
sec-Butylbenzene	<0.40		50.0	54.7		ug/L		109	70 - 123	1	20
Styrene	<0.39		50.0	57.2		ug/L		114	70 - 120	2	20
tert-Butylbenzene	<0.40		50.0	57.6		ug/L		115	70 - 121	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	58.8		ug/L		118	70 - 125	3	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	62.9		ug/L		126	62 - 140	1	20
Tetrachloroethene	<0.37		50.0	51.5		ug/L		103	70 - 128	1	20
Toluene	<0.15		50.0	56.2		ug/L		112	70 - 125	2	20
trans-1,2-Dichloroethene	<0.35		50.0	51.7		ug/L		103	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	58.1		ug/L		116	62 - 128	3	20
1,2,3-Trichlorobenzene	<0.46		50.0	38.1		ug/L		76	51 - 145	5	20
1,2,4-Trichlorobenzene	<0.34		50.0	38.2		ug/L		76	57 - 137	4	20
1,1,1-Trichloroethane	<0.38		50.0	48.9		ug/L		98	70 - 125	4	20
1,1,2-Trichloroethane	<0.35		50.0	58.5		ug/L		117	71 - 130	2	20
Trichloroethene	5.3		50.0	56.2		ug/L		102	70 - 125	3	20
Trichlorofluoromethane	<0.43		50.0	49.1		ug/L		98	55 - 128	9	20
1,2,3-Trichloropropane	<0.41		50.0	61.8		ug/L		124	50 - 133	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	55.8		ug/L		112	70 - 123	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	55.7		ug/L		111	70 - 123	1	20
Vinyl chloride	<0.20		50.0	51.6		ug/L		103	64 - 126	9	20
Xylenes, Total	<0.22		100	111		ug/L		111	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-711833/8
Matrix: Water
Analysis Batch: 711833

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			05/07/23 17:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/07/23 17:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:06	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/07/23 17:06	1

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

Lab Sample ID: MB 500-711833/8
Matrix: Water
Analysis Batch: 711833

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.48		1.0	0.48	ug/L			05/07/23 17:06	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/07/23 17:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/23 17:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/07/23 17:06	1
Chloroform	<0.37		2.0	0.37	ug/L			05/07/23 17:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/07/23 17:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/07/23 17:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/07/23 17:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/23 17:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/07/23 17:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/07/23 17:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/07/23 17:06	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/07/23 17:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/07/23 17:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/07/23 17:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/07/23 17:06	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/07/23 17:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/07/23 17:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/07/23 17:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/07/23 17:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/07/23 17:06	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/07/23 17:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/07/23 17:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/07/23 17:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/07/23 17:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/07/23 17:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/23 17:06	1
Naphthalene	0.909	J	1.0	0.34	ug/L			05/07/23 17:06	1
n-Butylbenzene	0.766	J	1.0	0.39	ug/L			05/07/23 17:06	1
N-Propylbenzene	0.643	J	1.0	0.41	ug/L			05/07/23 17:06	1
p-Isopropyltoluene	0.827	J	1.0	0.36	ug/L			05/07/23 17:06	1
sec-Butylbenzene	0.724	J	1.0	0.40	ug/L			05/07/23 17:06	1
Styrene	0.780	J	1.0	0.39	ug/L			05/07/23 17:06	1
tert-Butylbenzene	0.716	J	1.0	0.40	ug/L			05/07/23 17:06	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/07/23 17:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/23 17:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/23 17:06	1
Toluene	<0.15		0.50	0.15	ug/L			05/07/23 17:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/23 17:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/07/23 17:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/07/23 17:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/07/23 17:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/23 17:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/23 17:06	1

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

Lab Sample ID: MB 500-711833/8
Matrix: Water
Analysis Batch: 711833

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.16		0.50	0.16	ug/L			05/07/23 17:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/07/23 17:06	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/07/23 17:06	1
1,2,4-Trimethylbenzene	0.774	J	1.0	0.36	ug/L			05/07/23 17:06	1
1,3,5-Trimethylbenzene	0.808	J	1.0	0.25	ug/L			05/07/23 17:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/07/23 17:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/07/23 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*05/07/23 17:06*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*05/07/23 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*05/07/23 17:06*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*05/07/23 17:06*	*1*

Lab Sample ID: LCS 500-711833/5
Matrix: Water
Analysis Batch: 711833

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	40.0	45.7		ug/L		114	70 - 120
Bromobenzene	40.0	51.2	*+	ug/L		128	70 - 122
Bromochloromethane	40.0	44.9		ug/L		112	65 - 122
Bromodichloromethane	40.0	46.3		ug/L		116	69 - 120
Bromoform	40.0	41.4		ug/L		104	56 - 132
Bromomethane	40.0	35.9		ug/L		90	40 - 152
Carbon tetrachloride	40.0	41.4		ug/L		104	59 - 133
Chlorobenzene	40.0	46.0		ug/L		115	70 - 120
Chloroethane	40.0	34.7		ug/L		87	48 - 136
Chloroform	40.0	43.0		ug/L		107	70 - 120
Chloromethane	40.0	27.3		ug/L		68	56 - 152
2-Chlorotoluene	40.0	51.2	*+	ug/L		128	70 - 125
4-Chlorotoluene	40.0	50.7	*+	ug/L		127	68 - 124
cis-1,2-Dichloroethene	40.0	44.4		ug/L		111	70 - 125
cis-1,3-Dichloropropene	40.0	37.2		ug/L		93	64 - 127
Dibromochloromethane	40.0	44.6		ug/L		111	68 - 125
1,2-Dibromo-3-Chloropropane	40.0	34.5		ug/L		86	56 - 123
1,2-Dibromoethane	40.0	43.1		ug/L		108	70 - 125
Dibromomethane	40.0	43.9		ug/L		110	70 - 120
1,2-Dichlorobenzene	40.0	46.9		ug/L		117	70 - 125
1,3-Dichlorobenzene	40.0	49.0		ug/L		122	70 - 125
1,4-Dichlorobenzene	40.0	46.1		ug/L		115	70 - 120
Dichlorodifluoromethane	40.0	40.6		ug/L		102	40 - 159
1,1-Dichloroethane	40.0	40.8		ug/L		102	70 - 125
1,2-Dichloroethane	40.0	45.1		ug/L		113	68 - 127
1,1-Dichloroethene	40.0	42.3		ug/L		106	67 - 122
1,2-Dichloropropane	40.0	42.7		ug/L		107	67 - 130
1,3-Dichloropropane	40.0	44.2		ug/L		110	62 - 136
2,2-Dichloropropane	40.0	44.6		ug/L		111	58 - 139

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

Lab Sample ID: LCS 500-711833/5
Matrix: Water
Analysis Batch: 711833

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	40.0	43.8		ug/L		110	70 - 121
Ethylbenzene	40.0	46.8		ug/L		117	70 - 123
Hexachlorobutadiene	40.0	44.5		ug/L		111	51 - 150
Isopropylbenzene	40.0	45.1		ug/L		113	70 - 126
Methylene Chloride	40.0	42.2		ug/L		105	69 - 125
Methyl tert-butyl ether	40.0	44.1		ug/L		110	55 - 123
Naphthalene	40.0	28.8		ug/L		72	53 - 144
n-Butylbenzene	40.0	41.0		ug/L		103	68 - 125
N-Propylbenzene	40.0	45.9		ug/L		115	69 - 127
p-Isopropyltoluene	40.0	43.3		ug/L		108	70 - 125
sec-Butylbenzene	40.0	43.4		ug/L		108	70 - 123
Styrene	40.0	40.5		ug/L		101	70 - 120
tert-Butylbenzene	40.0	45.7		ug/L		114	70 - 121
1,1,1,2-Tetrachloroethane	40.0	44.9		ug/L		112	70 - 125
1,1,2,2-Tetrachloroethane	40.0	45.9		ug/L		115	62 - 140
Tetrachloroethene	40.0	47.2		ug/L		118	70 - 128
Toluene	40.0	45.3		ug/L		113	70 - 125
trans-1,2-Dichloroethene	40.0	44.3		ug/L		111	70 - 125
trans-1,3-Dichloropropene	40.0	36.9		ug/L		92	62 - 128
1,2,3-Trichlorobenzene	40.0	35.2		ug/L		88	51 - 145
1,2,4-Trichlorobenzene	40.0	39.1		ug/L		98	57 - 137
1,1,1-Trichloroethane	40.0	45.8		ug/L		115	70 - 125
1,1,2-Trichloroethane	40.0	46.3		ug/L		116	71 - 130
Trichloroethene	40.0	48.7		ug/L		122	70 - 125
Trichlorofluoromethane	40.0	37.1		ug/L		93	55 - 128
1,2,3-Trichloropropane	40.0	43.4		ug/L		108	50 - 133
1,2,4-Trimethylbenzene	40.0	44.1		ug/L		110	70 - 123
1,3,5-Trimethylbenzene	40.0	44.3		ug/L		111	70 - 123
Vinyl chloride	40.0	36.6		ug/L		92	64 - 126
Xylenes, Total	80.0	88.4		ug/L		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane (Surr)	*95*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: MB 500-711891/8
Matrix: Water
Analysis Batch: 711891

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			05/08/23 11:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/08/23 11:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/08/23 11:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/08/23 11:43	1
Bromoform	<0.48		1.0	0.48	ug/L			05/08/23 11:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/08/23 11:43	1

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

Lab Sample ID: MB 500-711891/8
Matrix: Water
Analysis Batch: 711891

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/08/23 11:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/08/23 11:43	1
Chloroform	<0.37		2.0	0.37	ug/L			05/08/23 11:43	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/08/23 11:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/08/23 11:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/08/23 11:43	1
cis-1,2-Dichloroethene	0.835	J	1.0	0.41	ug/L			05/08/23 11:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/08/23 11:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/08/23 11:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/08/23 11:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/08/23 11:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/08/23 11:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/08/23 11:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/08/23 11:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/08/23 11:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/08/23 11:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/08/23 11:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/08/23 11:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/08/23 11:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/08/23 11:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/08/23 11:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/08/23 11:43	1
Isopropylbenzene	0.697	J	1.0	0.39	ug/L			05/08/23 11:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/08/23 11:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/08/23 11:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
Naphthalene	0.904	J	1.0	0.34	ug/L			05/08/23 11:43	1
n-Butylbenzene	0.774	J	1.0	0.39	ug/L			05/08/23 11:43	1
N-Propylbenzene	0.645	J	1.0	0.41	ug/L			05/08/23 11:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/08/23 11:43	1
sec-Butylbenzene	0.722	J	1.0	0.40	ug/L			05/08/23 11:43	1
Styrene	<0.39		1.0	0.39	ug/L			05/08/23 11:43	1
tert-Butylbenzene	0.722	J	1.0	0.40	ug/L			05/08/23 11:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/08/23 11:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/08/23 11:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/08/23 11:43	1
Toluene	<0.15		0.50	0.15	ug/L			05/08/23 11:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/08/23 11:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/08/23 11:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/08/23 11:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/08/23 11:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/08/23 11:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/08/23 11:43	1
Trichloroethene	0.719		0.50	0.16	ug/L			05/08/23 11:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/08/23 11:43	1

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

Lab Sample ID: MB 500-711891/8
Matrix: Water
Analysis Batch: 711891

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/08/23 11:43	1
1,2,4-Trimethylbenzene	0.777	J	1.0	0.36	ug/L			05/08/23 11:43	1
1,3,5-Trimethylbenzene	0.815	J	1.0	0.25	ug/L			05/08/23 11:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/08/23 11:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/08/23 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*05/08/23 11:43*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*05/08/23 11:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*05/08/23 11:43*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*05/08/23 11:43*	*1*

Lab Sample ID: LCS 500-711891/5
Matrix: Water
Analysis Batch: 711891

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	40.0	42.5		ug/L		106	70 - 120
Bromobenzene	40.0	47.5		ug/L		119	70 - 122
Bromochloromethane	40.0	42.9		ug/L		107	65 - 122
Bromodichloromethane	40.0	43.4		ug/L		109	69 - 120
Bromoform	40.0	39.3		ug/L		98	56 - 132
Bromomethane	40.0	36.3		ug/L		91	40 - 152
Carbon tetrachloride	40.0	38.8		ug/L		97	59 - 133
Chlorobenzene	40.0	41.2		ug/L		103	70 - 120
Chloroethane	40.0	34.3		ug/L		86	48 - 136
Chloroform	40.0	39.8		ug/L		99	70 - 120
Chloromethane	40.0	26.4		ug/L		66	56 - 152
2-Chlorotoluene	40.0	46.5		ug/L		116	70 - 125
4-Chlorotoluene	40.0	46.4		ug/L		116	68 - 124
cis-1,2-Dichloroethene	40.0	42.9		ug/L		107	70 - 125
cis-1,3-Dichloropropene	40.0	34.4		ug/L		86	64 - 127
Dibromochloromethane	40.0	41.3		ug/L		103	68 - 125
1,2-Dibromo-3-Chloropropane	40.0	33.9		ug/L		85	56 - 123
1,2-Dibromoethane	40.0	40.3		ug/L		101	70 - 125
Dibromomethane	40.0	42.5		ug/L		106	70 - 120
1,2-Dichlorobenzene	40.0	43.6		ug/L		109	70 - 125
1,3-Dichlorobenzene	40.0	45.0		ug/L		112	70 - 125
1,4-Dichlorobenzene	40.0	42.1		ug/L		105	70 - 120
Dichlorodifluoromethane	40.0	39.0		ug/L		98	40 - 159
1,1-Dichloroethane	40.0	37.7		ug/L		94	70 - 125
1,2-Dichloroethane	40.0	43.3		ug/L		108	68 - 127
1,1-Dichloroethene	40.0	38.9		ug/L		97	67 - 122
1,2-Dichloropropane	40.0	40.2		ug/L		101	67 - 130
1,3-Dichloropropane	40.0	41.1		ug/L		103	62 - 136
2,2-Dichloropropane	40.0	39.7		ug/L		99	58 - 139
1,1-Dichloropropene	40.0	40.3		ug/L		101	70 - 121
Ethylbenzene	40.0	41.3		ug/L		103	70 - 123

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

Lab Sample ID: LCS 500-711891/5
Matrix: Water
Analysis Batch: 711891

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	40.0	40.0		ug/L		100	51 - 150
Isopropylbenzene	40.0	40.9		ug/L		102	70 - 126
Methylene Chloride	40.0	39.6		ug/L		99	69 - 125
Methyl tert-butyl ether	40.0	43.2		ug/L		108	55 - 123
Naphthalene	40.0	28.9		ug/L		72	53 - 144
n-Butylbenzene	40.0	36.2		ug/L		90	68 - 125
N-Propylbenzene	40.0	40.7		ug/L		102	69 - 127
p-Isopropyltoluene	40.0	38.7		ug/L		97	70 - 125
sec-Butylbenzene	40.0	38.5		ug/L		96	70 - 123
Styrene	40.0	37.0		ug/L		92	70 - 120
tert-Butylbenzene	40.0	40.9		ug/L		102	70 - 121
1,1,1,2-Tetrachloroethane	40.0	40.9		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	40.0	43.7		ug/L		109	62 - 140
Tetrachloroethene	40.0	41.9		ug/L		105	70 - 128
Toluene	40.0	40.9		ug/L		102	70 - 125
trans-1,2-Dichloroethene	40.0	40.6		ug/L		101	70 - 125
trans-1,3-Dichloropropene	40.0	34.8		ug/L		87	62 - 128
1,2,3-Trichlorobenzene	40.0	35.4		ug/L		88	51 - 145
1,2,4-Trichlorobenzene	40.0	36.9		ug/L		92	57 - 137
1,1,1-Trichloroethane	40.0	41.4		ug/L		104	70 - 125
1,1,2-Trichloroethane	40.0	43.5		ug/L		109	71 - 130
Trichloroethene	40.0	46.8		ug/L		117	70 - 125
Trichlorofluoromethane	40.0	37.1		ug/L		93	55 - 128
1,2,3-Trichloropropane	40.0	41.3		ug/L		103	50 - 133
1,2,4-Trimethylbenzene	40.0	39.5		ug/L		99	70 - 123
1,3,5-Trimethylbenzene	40.0	39.7		ug/L		99	70 - 123
Vinyl chloride	40.0	36.1		ug/L		90	64 - 126
Xylenes, Total	80.0	79.7		ug/L		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

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

Lab Sample ID: MB 500-711439/1-A
Matrix: Water
Analysis Batch: 711639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1221	<0.20		0.40	0.20	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1232	<0.20		0.40	0.20	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1242	<0.20		0.40	0.20	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1248	<0.20		0.40	0.20	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1254	<0.20		0.40	0.20	ug/L		05/04/23 13:41	05/05/23 11:30	1
PCB-1260	<0.070		0.40	0.070	ug/L		05/04/23 13:41	05/05/23 11:30	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		30 - 120	05/04/23 13:41	05/05/23 11:30	1
DCB Decachlorobiphenyl	93		30 - 140	05/04/23 13:41	05/05/23 11:30	1

Lab Sample ID: LCS 500-711439/2-A
Matrix: Water
Analysis Batch: 711639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 711439

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			4.00	3.29		ug/L		82	56 - 120		
PCB-1260			4.00	3.16		ug/L		79	53 - 137		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	80		30 - 120
DCB Decachlorobiphenyl	86		30 - 140

Lab Sample ID: LCSD 500-711439/3-A
Matrix: Water
Analysis Batch: 711639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 711439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			4.00	3.58		ug/L		89	56 - 120	8	20
PCB-1260			4.00	3.72		ug/L		93	53 - 137	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	90		30 - 120
DCB Decachlorobiphenyl	99		30 - 140

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-672361/1-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/05/23 05:20	05/11/23 01:51	1

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

Lab Sample ID: MB 320-672361/1-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/05/23 05:20	05/11/23 01:51	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/05/23 05:20	05/11/23 01:51	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/05/23 05:20	05/11/23 01:51	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/05/23 05:20	05/11/23 01:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/05/23 05:20	05/11/23 01:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/05/23 05:20	05/11/23 01:51	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/05/23 05:20	05/11/23 01:51	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/05/23 05:20	05/11/23 01:51	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/05/23 05:20	05/11/23 01:51	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/05/23 05:20	05/11/23 01:51	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/05/23 05:20	05/11/23 01:51	1
DONA	<0.40		2.0	0.40	ng/L		05/05/23 05:20	05/11/23 01:51	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/05/23 05:20	05/11/23 01:51	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/05/23 05:20	05/11/23 01:51	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/05/23 05:20	05/11/23 01:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C5 PFPeA	*102*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C4 PFHpA	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C5 PFNA	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 PFDA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 PFUnA	*120*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 PFDoA	*113*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 PFTeDA	*118*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C3 PFBS	*104*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
18O2 PFHxS	*106*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C4 PFOS	*112*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C8 FOSA	*127*		*10 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d3-NMeFOSAA	*141*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d5-NEtFOSAA	*142*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d-N-MeFOSA-M	*111*		*10 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d-N-EtFOSA-M	*109*		*10 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d7-N-MeFOSE-M	*112*		*10 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
d9-N-EtFOSE-M	*113*		*10 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
M2-4:2 FTS	*78*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
M2-6:2 FTS	*73*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
M2-8:2 FTS	*90*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C3 HFPO-DA	*101*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*
13C2 10:2 FTS	*108*		*25 - 150*	*05/05/23 05:20*	*05/11/23 01:51*	*1*

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

Lab Sample ID: LCS 320-672361/2-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	40.0		ng/L		100	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.6		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.2		ng/L		113	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	45.7		ng/L		114	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.0		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	43.7		ng/L		109	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.3		ng/L		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.4		ng/L		106	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.8		ng/L		104	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	44.0		ng/L		110	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.6		ng/L		91	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.0		ng/L		107	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.4		ng/L		113	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.9		ng/L		98	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.9		ng/L		102	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	36.5		ng/L		98	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	39.9		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.8		ng/L		109	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	40.2		ng/L		104	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.8		ng/L		110	60 - 135
NEtFOSA	40.0	42.5		ng/L		106	60 - 135
NMeFOSA	40.0	40.5		ng/L		101	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.0		ng/L		100	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.3		ng/L		103	60 - 135
NMeFOSE	40.0	42.3		ng/L		106	60 - 135
NEtFOSE	40.0	42.3		ng/L		106	60 - 135
4:2 FTS	37.5	43.6		ng/L		116	60 - 135
6:2 FTS	38.1	41.1		ng/L		108	60 - 135
8:2 FTS	38.4	42.7		ng/L		111	60 - 135
DONA	37.8	41.1		ng/L		109	60 - 135
HFPO-DA (GenX)	40.0	42.2		ng/L		105	60 - 135
F-53B Major	37.4	40.5		ng/L		108	60 - 135
F-53B Minor	37.8	41.5		ng/L		110	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*108*		*25 - 150*
13C5 PFPeA	*100*		*25 - 150*

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

Lab Sample ID: LCS 320-672361/2-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672361

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	102		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	108		25 - 150
13C5 PFNA	106		25 - 150
13C2 PFDA	118		25 - 150
13C2 PFUnA	117		25 - 150
13C2 PFDoA	121		25 - 150
13C2 PFTeDA	124		25 - 150
13C3 PFBS	104		25 - 150
18O2 PFHxS	110		25 - 150
13C4 PFOS	116		25 - 150
13C8 FOSA	124		10 - 150
d3-NMeFOSAA	149		25 - 150
d5-NEtFOSAA	145		25 - 150
d-N-MeFOSA-M	105		10 - 150
d-N-EtFOSA-M	104		10 - 150
d7-N-MeFOSE-M	110		10 - 150
d9-N-EtFOSE-M	112		10 - 150
M2-4:2 FTS	79		25 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	93		25 - 150
13C3 HFPO-DA	98		25 - 150
13C2 10:2 FTS	113		25 - 150

Lab Sample ID: LCSD 320-672361/3-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672361

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	42.1		ng/L		105	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)			40.0	44.9		ng/L		112	60 - 135	5	30
Perfluorohexanoic acid (PFHxA)			40.0	45.1		ng/L		113	60 - 135	0	30
Perfluoroheptanoic acid (PFHpA)			40.0	42.6		ng/L		107	60 - 135	7	30
Perfluorooctanoic acid (PFOA)			40.0	43.3		ng/L		108	60 - 135	3	30
Perfluorononanoic acid (PFNA)			40.0	42.9		ng/L		107	60 - 135	2	30
Perfluorodecanoic acid (PFDA)			40.0	43.8		ng/L		110	60 - 135	8	30
Perfluoroundecanoic acid (PFUnA)			40.0	40.3		ng/L		101	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)			40.0	44.3		ng/L		111	60 - 135	6	30
Perfluorotridecanoic acid (PFTriA)			40.0	45.9		ng/L		115	60 - 135	4	30
Perfluorotetradecanoic acid (PFTeA)			40.0	37.3		ng/L		93	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)			35.5	38.7		ng/L		109	60 - 135	2	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	43.5		ng/L		116	60 - 135	3	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	37.1		ng/L		102	60 - 135	3	30

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

Lab Sample ID: LCSD 320-672361/3-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672361

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)			38.2	39.8		ng/L		104	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)			37.2	39.7		ng/L		107	60 - 135	9	30
Perfluorononanesulfonic acid (PFNS)			38.5	40.6		ng/L		105	60 - 135	2	30
Perfluorodecanesulfonic acid (PFDS)			38.6	43.3		ng/L		112	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	41.8		ng/L		108	60 - 135	4	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.3		ng/L		108	60 - 135	1	30
NEtFOSA			40.0	44.3		ng/L		111	60 - 135	4	30
NMeFOSA			40.0	42.1		ng/L		105	60 - 135	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	40.7		ng/L		102	60 - 135	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	39.2		ng/L		98	60 - 135	5	30
NMeFOSE			40.0	40.0		ng/L		100	60 - 135	5	30
NEtFOSE			40.0	45.4		ng/L		114	60 - 135	7	30
4:2 FTS			37.5	42.2		ng/L		113	60 - 135	3	30
6:2 FTS			38.1	40.4		ng/L		106	60 - 135	2	30
8:2 FTS			38.4	38.7		ng/L		101	60 - 135	10	30
DONA			37.8	42.8		ng/L		113	60 - 135	4	30
HFPO-DA (GenX)			40.0	42.2		ng/L		106	60 - 135	0	30
F-53B Major			37.4	41.4		ng/L		111	60 - 135	2	30
F-53B Minor			37.8	42.9		ng/L		114	60 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*105*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*109*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*107*		*25 - 150*
13C2 PFDA	*112*		*25 - 150*
13C2 PFUnA	*115*		*25 - 150*
13C2 PFDoA	*112*		*25 - 150*
13C2 PFTeDA	*119*		*25 - 150*
13C3 PFBS	*103*		*25 - 150*
18O2 PFHxS	*109*		*25 - 150*
13C4 PFOS	*113*		*25 - 150*
13C8 FOSA	*124*		*10 - 150*
d3-NMeFOSAA	*145*		*25 - 150*
d5-NEtFOSAA	*149*		*25 - 150*
d-N-MeFOSA-M	*103*		*10 - 150*
d-N-EtFOSA-M	*101*		*10 - 150*
d7-N-MeFOSE-M	*112*		*10 - 150*
d9-N-EtFOSE-M	*107*		*10 - 150*
M2-4:2 FTS	*80*		*25 - 150*
M2-6:2 FTS	*81*		*25 - 150*

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

Lab Sample ID: LCSD 320-672361/3-A
Matrix: Water
Analysis Batch: 673612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672361

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	91		25 - 150
13C3 HFPO-DA	96		25 - 150
13C2 10:2 FTS	108		25 - 150

Lab Sample ID: MB 320-672918/1-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/07/23 13:32	05/10/23 22:07	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/07/23 13:32	05/10/23 22:07	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/07/23 13:32	05/10/23 22:07	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/07/23 13:32	05/10/23 22:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/07/23 13:32	05/10/23 22:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/07/23 13:32	05/10/23 22:07	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/07/23 13:32	05/10/23 22:07	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/07/23 13:32	05/10/23 22:07	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/07/23 13:32	05/10/23 22:07	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/07/23 13:32	05/10/23 22:07	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/07/23 13:32	05/10/23 22:07	1
DONA	<0.40		2.0	0.40	ng/L		05/07/23 13:32	05/10/23 22:07	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/07/23 13:32	05/10/23 22:07	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/07/23 13:32	05/10/23 22:07	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/07/23 13:32	05/10/23 22:07	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150	05/07/23 13:32	05/10/23 22:07	1

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

Lab Sample ID: MB 320-672918/1-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672918

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	103		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 PFHxA	107		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C4 PFHpA	109		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C4 PFOA	102		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C5 PFNA	109		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 PFDA	109		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 PFUnA	116		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 PFDoA	113		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 PFTeDA	103		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C3 PFBS	100		25 - 150	05/07/23 13:32	05/10/23 22:07	1
18O2 PFHxS	103		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C4 PFOS	114		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C8 FOSA	120		10 - 150	05/07/23 13:32	05/10/23 22:07	1
d3-NMeFOSAA	140		25 - 150	05/07/23 13:32	05/10/23 22:07	1
d5-NEtFOSAA	144		25 - 150	05/07/23 13:32	05/10/23 22:07	1
d-N-MeFOSA-M	94		10 - 150	05/07/23 13:32	05/10/23 22:07	1
d-N-EtFOSA-M	89		10 - 150	05/07/23 13:32	05/10/23 22:07	1
d7-N-MeFOSE-M	104		10 - 150	05/07/23 13:32	05/10/23 22:07	1
d9-N-EtFOSE-M	108		10 - 150	05/07/23 13:32	05/10/23 22:07	1
M2-4:2 FTS	73		25 - 150	05/07/23 13:32	05/10/23 22:07	1
M2-6:2 FTS	75		25 - 150	05/07/23 13:32	05/10/23 22:07	1
M2-8:2 FTS	86		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C3 HFPO-DA	107		25 - 150	05/07/23 13:32	05/10/23 22:07	1
13C2 10:2 FTS	108		25 - 150	05/07/23 13:32	05/10/23 22:07	1

Lab Sample ID: LCS 320-672918/2-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	46.6		ng/L		117	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.6		ng/L		114	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	47.2		ng/L		118	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	44.6		ng/L		111	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	44.7		ng/L		112	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.7		ng/L		114	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.7		ng/L		117	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	47.1		ng/L		118	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	44.7		ng/L		112	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	47.8		ng/L		120	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.5		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	41.7		ng/L		117	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	44.7		ng/L		119	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.7		ng/L		112	60 - 135

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

Lab Sample ID: LCS 320-672918/2-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.5		ng/L		106	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.8		ng/L		107	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	42.2		ng/L		110	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	42.6		ng/L		111	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.7		ng/L		100	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	48.4		ng/L		121	60 - 135
NEtFOSA	40.0	46.4		ng/L		116	60 - 135
NMeFOSA	40.0	44.1		ng/L		110	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	46.1		ng/L		115	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	46.3		ng/L		116	60 - 135
NMeFOSE	40.0	42.6		ng/L		106	60 - 135
NEtFOSE	40.0	48.0		ng/L		120	60 - 135
4:2 FTS	37.5	41.6		ng/L		111	60 - 135
6:2 FTS	38.1	46.4		ng/L		122	60 - 135
8:2 FTS	38.4	45.5		ng/L		119	60 - 135
DONA	37.8	46.3		ng/L		122	60 - 135
HFPO-DA (GenX)	40.0	44.3		ng/L		111	60 - 135
F-53B Major	37.4	43.3		ng/L		116	60 - 135
F-53B Minor	37.8	42.2		ng/L		112	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*100*		*25 - 150*
13C4 PFHpA	*109*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*102*		*25 - 150*
13C2 PFUnA	*101*		*25 - 150*
13C2 PFDoA	*105*		*25 - 150*
13C2 PFTeDA	*102*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*107*		*25 - 150*
13C8 FOSA	*110*		*10 - 150*
d3-NMeFOSAA	*119*		*25 - 150*
d5-NEtFOSAA	*121*		*25 - 150*
d-N-MeFOSA-M	*92*		*10 - 150*
d-N-EtFOSA-M	*88*		*10 - 150*
d7-N-MeFOSE-M	*106*		*10 - 150*
d9-N-EtFOSE-M	*100*		*10 - 150*
M2-4:2 FTS	*77*		*25 - 150*
M2-6:2 FTS	*69*		*25 - 150*

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

Lab Sample ID: LCS 320-672918/2-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672918

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*80*		*25 - 150*
13C3 HFPO-DA	*96*		*25 - 150*
13C2 10:2 FTS	*95*		*25 - 150*

Lab Sample ID: LCSD 320-672918/3-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672918

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	45.8		ng/L		115	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)			40.0	45.6		ng/L		114	60 - 135	0	30
Perfluorohexanoic acid (PFHxA)			40.0	47.0		ng/L		117	60 - 135	0	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.8		ng/L		114	60 - 135	3	30
Perfluorooctanoic acid (PFOA)			40.0	46.2		ng/L		115	60 - 135	3	30
Perfluorononanoic acid (PFNA)			40.0	47.6		ng/L		119	60 - 135	4	30
Perfluorodecanoic acid (PFDA)			40.0	45.6		ng/L		114	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)			40.0	43.5		ng/L		109	60 - 135	8	30
Perfluorododecanoic acid (PFDoA)			40.0	49.1		ng/L		123	60 - 135	9	30
Perfluorotridecanoic acid (PFTriA)			40.0	50.7		ng/L		127	60 - 135	6	30
Perfluorotetradecanoic acid (PFTeA)			40.0	40.6		ng/L		102	60 - 135	0	30
Perfluorobutanesulfonic acid (PFBS)			35.5	42.8		ng/L		121	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	44.3		ng/L		118	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	39.2		ng/L		108	60 - 135	4	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	41.4		ng/L		109	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)			37.2	38.7		ng/L		104	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)			38.5	42.4		ng/L		110	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	42.6		ng/L		111	60 - 135	0	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	40.6		ng/L		105	60 - 135	5	30
Perfluorooctanesulfonamide (FOSA)			40.0	45.8		ng/L		115	60 - 135	5	30
NEtFOSA			40.0	47.0		ng/L		117	60 - 135	1	30
NMeFOSA			40.0	43.7		ng/L		109	60 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	43.2		ng/L		108	60 - 135	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	41.5		ng/L		104	60 - 135	11	30
NMeFOSE			40.0	44.5		ng/L		111	60 - 135	4	30
NEtFOSE			40.0	46.1		ng/L		115	60 - 135	4	30
4:2 FTS			37.5	44.7		ng/L		119	60 - 135	7	30
6:2 FTS			38.1	45.5		ng/L		120	60 - 135	2	30
8:2 FTS			38.4	44.7		ng/L		116	60 - 135	2	30

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

Lab Sample ID: LCSD 320-672918/3-A
Matrix: Water
Analysis Batch: 673606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672918

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA			37.8	43.0		ng/L		114	60 - 135	7	30
HFPO-DA (GenX)			40.0	44.8		ng/L		112	60 - 135	1	30
F-53B Major			37.4	43.1		ng/L		115	60 - 135	0	30
F-53B Minor			37.8	40.8		ng/L		108	60 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*104*		*25 - 150*
13C5 PFPeA	*99*		*25 - 150*
13C2 PFHxA	*101*		*25 - 150*
13C4 PFHpA	*105*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*105*		*25 - 150*
13C2 PFUnA	*111*		*25 - 150*
13C2 PFDoA	*103*		*25 - 150*
13C2 PFTeDA	*108*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
18O2 PFHxS	*107*		*25 - 150*
13C4 PFOS	*112*		*25 - 150*
13C8 FOSA	*118*		*10 - 150*
d3-NMeFOSAA	*130*		*25 - 150*
d5-NEtFOSAA	*142*		*25 - 150*
d-N-MeFOSA-M	*99*		*10 - 150*
d-N-EtFOSA-M	*96*		*10 - 150*
d7-N-MeFOSE-M	*108*		*10 - 150*
d9-N-EtFOSE-M	*109*		*10 - 150*
M2-4:2 FTS	*78*		*25 - 150*
M2-6:2 FTS	*73*		*25 - 150*
M2-8:2 FTS	*80*		*25 - 150*
13C3 HFPO-DA	*97*		*25 - 150*
13C2 10:2 FTS	*105*		*25 - 150*

Lab Sample ID: MB 320-674232/1-A
Matrix: Water
Analysis Batch: 675720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/12/23 05:28	05/18/23 17:52	1

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

Lab Sample ID: MB 320-674232/1-A
Matrix: Water
Analysis Batch: 675720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/12/23 05:28	05/18/23 17:52	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/12/23 05:28	05/18/23 17:52	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/12/23 05:28	05/18/23 17:52	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/12/23 05:28	05/18/23 17:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/12/23 05:28	05/18/23 17:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/12/23 05:28	05/18/23 17:52	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/12/23 05:28	05/18/23 17:52	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/12/23 05:28	05/18/23 17:52	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/12/23 05:28	05/18/23 17:52	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/12/23 05:28	05/18/23 17:52	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/12/23 05:28	05/18/23 17:52	1
DONA	<0.40		2.0	0.40	ng/L		05/12/23 05:28	05/18/23 17:52	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/12/23 05:28	05/18/23 17:52	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/12/23 05:28	05/18/23 17:52	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/12/23 05:28	05/18/23 17:52	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*125*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C5 PFPeA	*130*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C2 PFHxA	*126*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C4 PFHpA	*123*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C4 PFOA	*112*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C5 PFNA	*120*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C2 PFDA	*136*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C2 PFUnA	*114*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C2 PFDoA	*120*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C2 PFTeDA	*96*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C3 PFBS	*130*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
18O2 PFHxS	*106*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C4 PFOS	*137*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
13C8 FOSA	*128*		*10 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d3-NMeFOSAA	*132*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d5-NEtFOSAA	*128*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d-N-MeFOSA-M	*116*		*10 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d-N-EtFOSA-M	*106*		*10 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d7-N-MeFOSE-M	*123*		*10 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
d9-N-EtFOSE-M	*120*		*10 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
M2-4:2 FTS	*93*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*
M2-6:2 FTS	*96*		*25 - 150*	*05/12/23 05:28*	*05/18/23 17:52*	*1*

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

Lab Sample ID: MB 320-674232/1-A
Matrix: Water
Analysis Batch: 675720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674232

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	119		25 - 150	05/12/23 05:28	05/18/23 17:52	1
13C3 HFPO-DA	129		25 - 150	05/12/23 05:28	05/18/23 17:52	1
13C2 10:2 FTS	104		25 - 150	05/12/23 05:28	05/18/23 17:52	1

Lab Sample ID: LCS 320-674232/2-A
Matrix: Water
Analysis Batch: 675720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	50.7		ng/L		127	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.3		ng/L		113	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.4		ng/L		101	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	48.3		ng/L		121	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	47.8		ng/L		119	60 - 135
Perfluorononanoic acid (PFNA)	40.0	49.3		ng/L		123	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.9		ng/L		117	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.9		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	44.5		ng/L		111	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	43.5		ng/L		109	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	43.9		ng/L		110	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.8		ng/L		109	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.1		ng/L		109	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	41.4		ng/L		114	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.1		ng/L		100	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	40.1		ng/L		108	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	45.2		ng/L		118	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	42.9		ng/L		111	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.3		ng/L		94	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.6		ng/L		109	60 - 135
NEtFOSA	40.0	43.2		ng/L		108	60 - 135
NMeFOSA	40.0	41.8		ng/L		104	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.5		ng/L		114	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.9		ng/L		107	60 - 135
NMeFOSE	40.0	44.5		ng/L		111	60 - 135
NEtFOSE	40.0	47.4		ng/L		119	60 - 135
4:2 FTS	37.5	47.7		ng/L		127	60 - 135
6:2 FTS	38.1	45.4		ng/L		119	60 - 135
8:2 FTS	38.4	45.4		ng/L		118	60 - 135

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

Lab Sample ID: LCS 320-674232/2-A
Matrix: Water
Analysis Batch: 675720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DONA			37.8	42.9		ng/L		114	60 - 135		
HFPO-DA (GenX)			40.0	46.0		ng/L		115	60 - 135		
F-53B Major			37.4	43.2		ng/L		116	60 - 135		
F-53B Minor			37.8	41.9		ng/L		111	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*107*		*25 - 150*
13C5 PFPeA	*120*		*25 - 150*
13C2 PFHxA	*131*		*25 - 150*
13C4 PFHpA	*110*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*109*		*25 - 150*
13C2 PFDA	*119*		*25 - 150*
13C2 PFUnA	*120*		*25 - 150*
13C2 PFDoA	*112*		*25 - 150*
13C2 PFTeDA	*96*		*25 - 150*
13C3 PFBS	*117*		*25 - 150*
18O2 PFHxS	*109*		*25 - 150*
13C4 PFOS	*119*		*25 - 150*
13C8 FOSA	*114*		*10 - 150*
d3-NMeFOSAA	*121*		*25 - 150*
d5-NEtFOSAA	*117*		*25 - 150*
d-N-MeFOSA-M	*104*		*10 - 150*
d-N-EtFOSA-M	*103*		*10 - 150*
d7-N-MeFOSE-M	*112*		*10 - 150*
d9-N-EtFOSE-M	*111*		*10 - 150*
M2-4:2 FTS	*82*		*25 - 150*
M2-6:2 FTS	*82*		*25 - 150*
M2-8:2 FTS	*100*		*25 - 150*
13C3 HFPO-DA	*124*		*25 - 150*
13C2 10:2 FTS	*92*		*25 - 150*

Lab Sample ID: 500-232968-32 MS
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorohexanoic acid (PFHxA)	<2.9	F1	200	<2.9	F1	ng/L		0	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<1.3	F1	200	293	F1	ng/L		147	70 - 130		
Perfluorooctanoic acid (PFOA)	1600		200	1800	4	ng/L		81	70 - 130		
Perfluorononanoic acid (PFNA)	<1.4		200	239		ng/L		120	70 - 130		
Perfluorodecanoic acid (PFDA)	<1.6		200	218		ng/L		109	70 - 130		
Perfluoroundecanoic acid (PFUnA)	<5.5		200	236		ng/L		118	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.8		200	220		ng/L		110	70 - 130		
Perfluorotridecanoic acid (PFTriA)	<6.5	F1	200	263	F1	ng/L		131	70 - 130		
Perfluorotetradecanoic acid (PFTeA)	<3.7		200	214		ng/L		107	70 - 130		

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

Lab Sample ID: 500-232968-32 MS
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	<1.0	F1	178	<1.0	F1	ng/L		0	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<1.5	F1	188	282	F1	ng/L		150	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.9	F2 F1	182	133		ng/L		73	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<0.95	F1	191	257	F1	ng/L		135	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.7		186	197		ng/L		106	70 - 130
Perfluorononanesulfonic acid (PFNS)	<1.9		192	202		ng/L		105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	<1.6		193	179		ng/L		93	70 - 130
Perfluorododecanesulfonic acid (PFDoS)	<4.9		194	165		ng/L		85	70 - 130
Perfluorooctanesulfonamide (FOSA)	<4.9		200	221		ng/L		110	70 - 130
NEtFOSA	<4.4		200	216		ng/L		108	70 - 130
NMeFOSA	<2.2		200	189		ng/L		94	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		200	229		ng/L		115	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		200	213		ng/L		107	70 - 130
NMeFOSE	<7.0		200	233		ng/L		117	70 - 130
NEtFOSE	<4.3		200	249		ng/L		124	70 - 130
4:2 FTS	<1.2	F1	188	<1.2	F1	ng/L		0	70 - 130
6:2 FTS	<13	F2 F1	190	220		ng/L		116	70 - 130
8:2 FTS	<2.3		192	233		ng/L		121	70 - 130
DONA	<2.0	F1	189	77.3	F1	ng/L		41	70 - 130
HFPO-DA (GenX)	<7.5		200	217	I	ng/L		109	70 - 130
F-53B Major	<1.2		187	228		ng/L		122	70 - 130
F-53B Minor	<1.6		189	168		ng/L		89	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C5 PFPeA	*16*	*5-	*25 - 150*
13C2 PFHxA	*28*		*25 - 150*
13C4 PFHpA	*45*		*25 - 150*
13C4 PFOA	*74*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*74*		*25 - 150*
13C2 PFUnA	*76*		*25 - 150*
13C2 PFDoA	*79*		*25 - 150*
13C2 PFTeDA	*109*		*25 - 150*
13C3 PFBS	*64*		*25 - 150*
18O2 PFHxS	*161*	*5+	*25 - 150*
13C4 PFOS	*124*		*25 - 150*
13C8 FOSA	*58*		*10 - 150*
d3-NMeFOSAA	*40*		*25 - 150*
d5-NEtFOSAA	*54*		*25 - 150*
d-N-MeFOSA-M	*90*		*10 - 150*

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

Lab Sample ID: 500-232968-32 MS
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d-N-EtFOSA-M	91		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	85		10 - 150
M2-4:2 FTS	80		25 - 150
M2-6:2 FTS	343	*5+	25 - 150
M2-8:2 FTS	153	*5+	25 - 150
13C3 HFPO-DA	68		25 - 150
13C2 10:2 FTS	74		25 - 150

Lab Sample ID: 500-232968-32 MSD
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	<2.9	F1	200	<2.9	F1	ng/L		0	70 - 130	NC	30
Perfluoroheptanoic acid (PFHpA)	<1.3	F1	200	370	F1	ng/L		185	70 - 130	23	30
Perfluorooctanoic acid (PFOA)	1600		200	1840	4	ng/L		99	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<1.4		200	230		ng/L		115	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<1.6		200	211		ng/L		106	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<5.5		200	230		ng/L		115	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.8		200	235		ng/L		117	70 - 130	7	30
Perfluorotridecanoic acid (PFTriA)	<6.5	F1	200	254		ng/L		127	70 - 130	4	30
Perfluorotetradecanoic acid (PFTeA)	<3.7		200	243		ng/L		122	70 - 130	12	30
Perfluorobutanesulfonic acid (PFBS)	<1.0	F1	178	<1.0	F1	ng/L		0	70 - 130	NC	30
Perfluoropentanesulfonic acid (PFPeS)	<1.5	F1	188	279	F1	ng/L		149	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.9	F2 F1	182	249	I F1 F2	ng/L		136	70 - 130	61	30
Perfluoroheptanesulfonic acid (PFHpS)	<0.95	F1	191	255	F1	ng/L		134	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.7		186	208		ng/L		112	70 - 130	6	30
Perfluorononanesulfonic acid (PFNS)	<1.9		192	196		ng/L		102	70 - 130	3	30
Perfluorodecanesulfonic acid (PFDS)	<1.6		193	194		ng/L		100	70 - 130	8	30
Perfluorododecanesulfonic acid (PFDoS)	<4.9		194	191		ng/L		99	70 - 130	15	30
Perfluorooctanesulfonamide (FOSA)	<4.9		200	238		ng/L		119	70 - 130	8	30
NEtFOSA	<4.4		200	205		ng/L		102	70 - 130	5	30
NMeFOSA	<2.2		200	188		ng/L		94	70 - 130	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		200	230		ng/L		115	70 - 130	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		200	219		ng/L		109	70 - 130	3	30
NMeFOSE	<7.0		200	240		ng/L		120	70 - 130	3	30
NEtFOSE	<4.3		200	251		ng/L		126	70 - 130	1	30

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

Lab Sample ID: 500-232968-32 MSD
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4:2 FTS	<1.2	F1	188	<1.2	F1	ng/L		0	70 - 130	NC	30
6:2 FTS	<13	F2 F1	190	304	F1 F2	ng/L		160	70 - 130	32	30
8:2 FTS	<2.3		192	209		ng/L		109	70 - 130	11	30
DONA	<2.0	F1	189	83.7	F1	ng/L		44	70 - 130	8	30
HFPO-DA (GenX)	<7.5		200	229	I	ng/L		114	70 - 130	5	30
F-53B Major	<1.2		187	234		ng/L		125	70 - 130	3	30
F-53B Minor	<1.6		189	169		ng/L		89	70 - 130	1	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C5 PFPeA	*17*	*5-	*25 - 150*
13C2 PFHxA	*28*		*25 - 150*
13C4 PFHpA	*45*		*25 - 150*
13C4 PFOA	*71*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*72*		*25 - 150*
13C2 PFUnA	*76*		*25 - 150*
13C2 PFDoA	*84*		*25 - 150*
13C2 PFTeDA	*118*		*25 - 150*
13C3 PFBS	*63*		*25 - 150*
18O2 PFHxS	*147*		*25 - 150*
13C4 PFOS	*123*		*25 - 150*
13C8 FOSA	*56*		*10 - 150*
d3-NMeFOSAA	*41*		*25 - 150*
d5-NEtFOSAA	*56*		*25 - 150*
d-N-MeFOSA-M	*93*		*10 - 150*
d-N-EtFOSA-M	*96*		*10 - 150*
d7-N-MeFOSE-M	*86*		*10 - 150*
d9-N-EtFOSE-M	*87*		*10 - 150*
M2-4:2 FTS	*101*		*25 - 150*
M2-6:2 FTS	*253*	*5+	*25 - 150*
M2-8:2 FTS	*165*	*5+	*25 - 150*
13C3 HFPO-DA	*67*		*25 - 150*
13C2 10:2 FTS	*83*		*25 - 150*

Lab Sample ID: MB 320-675026/1-A
Matrix: Water
Analysis Batch: 675123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		05/16/23 05:21	05/16/23 15:32	1

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

Lab Sample ID: MB 320-675026/1-A
Matrix: Water
Analysis Batch: 675123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/16/23 05:21	05/16/23 15:32	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/16/23 05:21	05/16/23 15:32	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/16/23 05:21	05/16/23 15:32	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/16/23 05:21	05/16/23 15:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		05/16/23 05:21	05/16/23 15:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		05/16/23 05:21	05/16/23 15:32	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/16/23 05:21	05/16/23 15:32	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/16/23 05:21	05/16/23 15:32	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/16/23 05:21	05/16/23 15:32	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/16/23 05:21	05/16/23 15:32	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/16/23 05:21	05/16/23 15:32	1
DONA	<0.40		2.0	0.40	ng/L		05/16/23 05:21	05/16/23 15:32	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/16/23 05:21	05/16/23 15:32	1
F-53B Major	<0.24		2.0	0.24	ng/L		05/16/23 05:21	05/16/23 15:32	1
F-53B Minor	<0.32		2.0	0.32	ng/L		05/16/23 05:21	05/16/23 15:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C5 PFPeA	*99*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C2 PFHxA	*102*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C4 PFHpA	*105*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C4 PFOA	*100*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C5 PFNA	*102*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C2 PFDA	*104*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C2 PFUnA	*101*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C2 PFDoA	*100*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C3 PFBS	*88*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
18O2 PFHxS	*92*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C4 PFOS	*93*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
13C8 FOSA	*80*		*10 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d3-NMeFOSAA	*76*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d5-NEtFOSAA	*81*		*25 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d-N-MeFOSA-M	*69*		*10 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d-N-EtFOSA-M	*65*		*10 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d7-N-MeFOSE-M	*55*		*10 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*
d9-N-EtFOSE-M	*56*		*10 - 150*	*05/16/23 05:21*	*05/16/23 15:32*	*1*

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

Lab Sample ID: MB 320-675026/1-A
Matrix: Water
Analysis Batch: 675123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675026

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	88		25 - 150	05/16/23 05:21	05/16/23 15:32	1
M2-6:2 FTS	97		25 - 150	05/16/23 05:21	05/16/23 15:32	1
M2-8:2 FTS	117		25 - 150	05/16/23 05:21	05/16/23 15:32	1
13C3 HFPO-DA	109		25 - 150	05/16/23 05:21	05/16/23 15:32	1
13C2 10:2 FTS	122		25 - 150	05/16/23 05:21	05/16/23 15:32	1

Lab Sample ID: LCS 320-675026/2-A
Matrix: Water
Analysis Batch: 675123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	39.7		ng/L		99	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.2		ng/L		103	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.9		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.8		ng/L		102	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	40.7		ng/L		102	60 - 135
Perfluorononanoic acid (PFNA)	40.0	44.7		ng/L		112	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	47.1		ng/L		118	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.9		ng/L		100	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.9		ng/L		105	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	41.1		ng/L		103	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.6		ng/L		104	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.0		ng/L		107	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.7		ng/L		108	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.4		ng/L		103	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.3		ng/L		108	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	36.8		ng/L		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	39.9		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	40.2		ng/L		104	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.1		ng/L		98	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		105	60 - 135
NEtFOSA	40.0	42.0		ng/L		105	60 - 135
NMeFOSA	40.0	42.5		ng/L		106	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.1		ng/L		100	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.9		ng/L		107	60 - 135
NMeFOSE	40.0	43.2		ng/L		108	60 - 135
NEtFOSE	40.0	40.8		ng/L		102	60 - 135
4:2 FTS	37.5	40.8		ng/L		109	60 - 135

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

Lab Sample ID: LCS 320-675026/2-A
Matrix: Water
Analysis Batch: 675123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
6:2 FTS	38.1	41.3		ng/L		108	60 - 135
8:2 FTS	38.4	40.5		ng/L		105	60 - 135
DONA	37.8	43.4		ng/L		115	60 - 135
HFPO-DA (GenX)	40.0	40.0		ng/L		100	60 - 135
F-53B Major	37.4	42.3		ng/L		113	60 - 135
F-53B Minor	37.8	38.6		ng/L		102	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*109*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*96*		*25 - 150*
13C2 PFDA	*105*		*25 - 150*
13C2 PFUnA	*107*		*25 - 150*
13C2 PFDoA	*104*		*25 - 150*
13C2 PFTeDA	*97*		*25 - 150*
13C3 PFBS	*94*		*25 - 150*
18O2 PFHxS	*97*		*25 - 150*
13C4 PFOS	*92*		*25 - 150*
13C8 FOSA	*86*		*10 - 150*
d3-NMeFOSAA	*81*		*25 - 150*
d5-NEtFOSAA	*77*		*25 - 150*
d-N-MeFOSA-M	*69*		*10 - 150*
d-N-EtFOSA-M	*65*		*10 - 150*
d7-N-MeFOSE-M	*58*		*10 - 150*
d9-N-EtFOSE-M	*57*		*10 - 150*
M2-4:2 FTS	*89*		*25 - 150*
M2-6:2 FTS	*103*		*25 - 150*
M2-8:2 FTS	*106*		*25 - 150*
13C3 HFPO-DA	*116*		*25 - 150*
13C2 10:2 FTS	*124*		*25 - 150*

Lab Sample ID: MB 320-676606/1-A
Matrix: Water
Analysis Batch: 676866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/22/23 05:03	05/22/23 19:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*05/22/23 05:03*	*05/22/23 19:48*	*1*

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

Lab Sample ID: LCS 320-676606/2-A
Matrix: Water
Analysis Batch: 676866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)			40.0	42.1		ng/L		105	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*97*		*25 - 150*

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

Lab Sample ID: 500-232968-32 MS
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoropentanoic acid (PFPeA) - DL	<5100	G	200	3660	4	ng/L		-701	70 - 130		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C5 PFPeA - DL	*74*		*25 - 150*

Lab Sample ID: 500-232968-32 MSD
Matrix: Water
Analysis Batch: 675720

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 674232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA) - DL	<5100	G	200	3000	4	ng/L		-1030	70 - 130	20	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C5 PFPeA - DL	*81*		*25 - 150*

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

Lab Sample ID: 500-232968-32 MS
Matrix: Water
Analysis Batch: 676866

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 676606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA) - RE	<240		4000	4280		ng/L		107	70 - 130		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA - RE	*62*		*25 - 150*

Lab Sample ID: 500-232968-32 MSD
Matrix: Water
Analysis Batch: 676866

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 676606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA) - RE	<240		4000	4410		ng/L		110	70 - 130	3	30

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA - RE	58		25 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-712697/1-A
Matrix: Water
Analysis Batch: 712962

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 712697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		05/11/23 09:42	05/11/23 20:15	1
Antimony	<1.3		3.0	1.3	ug/L		05/11/23 09:42	05/11/23 20:15	1
Chromium	<1.1		5.0	1.1	ug/L		05/11/23 09:42	05/11/23 20:15	1
Lead	<0.19		0.50	0.19	ug/L		05/11/23 09:42	05/11/23 20:15	1

Lab Sample ID: MB 500-712697/1-A
Matrix: Water
Analysis Batch: 713284

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 712697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/11/23 09:42	05/12/23 14:22	1

Lab Sample ID: LCS 500-712697/2-A
Matrix: Water
Analysis Batch: 712962

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 712697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1990		ug/L		99	80 - 120
Antimony	500	487		ug/L		97	80 - 120
Chromium	200	198		ug/L		99	80 - 120
Lead	100	98.6		ug/L		99	80 - 120

Lab Sample ID: LCS 500-712697/2-A
Matrix: Water
Analysis Batch: 713284

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 712697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	104		ug/L		104	80 - 120

Lab Sample ID: 500-232968-1 MS
Matrix: Water
Analysis Batch: 712962

Client Sample ID: AMEC MW-17
Prep Type: Dissolved
Prep Batch: 712697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	2200		ug/L		110	75 - 125
Antimony	21		500	565		ug/L		109	75 - 125
Chromium	3.4	J	200	186		ug/L		91	75 - 125
Lead	<0.19		100	99.9		ug/L		100	75 - 125

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

Lab Sample ID: 500-232968-1 MSD
Matrix: Water
Analysis Batch: 712962

Client Sample ID: AMEC MW-17
Prep Type: Dissolved
Prep Batch: 712697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	2210		ug/L		111	75 - 125	1	20
Antimony	21		500	567		ug/L		109	75 - 125	0	20
Chromium	3.4	J	200	186		ug/L		91	75 - 125	0	20
Lead	<0.19		100	97.9		ug/L		98	75 - 125	2	20

Lab Sample ID: 500-232968-1 DU
Matrix: Water
Analysis Batch: 712962

Client Sample ID: AMEC MW-17
Prep Type: Dissolved
Prep Batch: 712697

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	<25			<25		ug/L				NC	20
Antimony	21			19.7		ug/L				7	20
Chromium	3.4	J		3.46	J	ug/L				1	20
Lead	<0.19			<0.19		ug/L				NC	20

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-17
Lab Sample ID: 500-232968-1
Date Collected: 04/26/23 08:22
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 02:21
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 20:22

Client Sample ID: MW-121
Lab Sample ID: 500-232968-2
Date Collected: 04/26/23 12:11
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711833	AJP	EET CHI	05/07/23 17:32
Total/NA	Analysis	8260B	DL	2	711891	W1T	EET CHI	05/08/23 14:21

Client Sample ID: MW-121 DUP
Lab Sample ID: 500-232968-3
Date Collected: 04/26/23 12:15
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711833	AJP	EET CHI	05/07/23 17:59
Total/NA	Analysis	8260B	DL	2	711891	W1T	EET CHI	05/08/23 14:47

Client Sample ID: EB-5
Lab Sample ID: 500-232968-4
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 15:28
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 02:31
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 20:39

Client Sample ID: FB-5
Lab Sample ID: 500-232968-5
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	674357	D1R	EET SAC	05/12/23 18:22

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC MW-15
Lab Sample ID: 500-232968-6
Date Collected: 04/25/23 09:04
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 02:52

Client Sample ID: MW-235
Lab Sample ID: 500-232968-7
Date Collected: 04/25/23 10:14
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 03:02

Client Sample ID: MW-236
Lab Sample ID: 500-232968-8
Date Collected: 04/25/23 11:19
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 03:12

Client Sample ID: PZ-226
Lab Sample ID: 500-232968-9
Date Collected: 04/25/23 12:50
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 03:22

Client Sample ID: PZ-226 DUP
Lab Sample ID: 500-232968-10
Date Collected: 04/25/23 12:55
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 03:53

Client Sample ID: MW-226
Lab Sample ID: 500-232968-11
Date Collected: 04/25/23 13:53
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 04:03

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232968-1

Client Sample ID: MW-226 DUP
Date Collected: 04/25/23 13:58
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 04:13

Client Sample ID: AMEC MW-16
Date Collected: 04/25/23 15:15
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 04:23
Total/NA	Prep	3535	DL		672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)	DL	5	673927	K1S	EET SAC	05/11/23 17:43

Client Sample ID: AMEC MW-16A
Date Collected: 04/25/23 16:02
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 04:34

Client Sample ID: FB-2
Date Collected: 04/25/23 15:50
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672361	RLT	EET SAC	05/05/23 05:20
Total/NA	Analysis	537 (modified)		1	673612	RS1	EET SAC	05/11/23 04:44

Client Sample ID: EB-2
Date Collected: 04/25/23 16:23
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672918	B1Q	EET SAC	05/07/23 13:33
Total/NA	Analysis	537 (modified)		1	673927	K1S	EET SAC	05/11/23 17:12

Client Sample ID: MW-233
Date Collected: 04/25/23 07:55
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 14:47

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232968-1

Client Sample ID: MW-60
Date Collected: 04/25/23 08:35
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 15:00
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 20:43

Client Sample ID: MW-67
Date Collected: 04/25/23 09:35
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 15:13

Client Sample ID: MW-19
Date Collected: 04/25/23 10:40
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 17:27
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 15:26
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 20:46

Client Sample ID: MW-37
Date Collected: 04/25/23 11:53
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 17:51
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 15:39

Client Sample ID: MW-6
Date Collected: 04/25/23 13:05
Date Received: 04/28/23 09:45

Lab Sample ID: 500-232968-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 15:52
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 20:56

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-8
Lab Sample ID: 500-232968-23
Date Collected: 04/25/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 18:15

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-232968-24
Date Collected: 04/25/23 14:55
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 18:39

Client Sample ID: MW-16
Lab Sample ID: 500-232968-25
Date Collected: 04/25/23 15:50
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 19:02

Client Sample ID: EB-03
Lab Sample ID: 500-232968-26
Date Collected: 04/25/23 16:45
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 15:52
Total/NA	Analysis	8260B		1	711833	AJP	EET CHI	05/07/23 18:25
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 16:05
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 21:00

Client Sample ID: PZ-206
Lab Sample ID: 500-232968-27
Date Collected: 04/26/23 08:10
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672918	B1Q	EET SAC	05/07/23 13:33
Total/NA	Analysis	537 (modified)		1	673606	RS1	EET SAC	05/10/23 22:48

Client Sample ID: MW-17
Lab Sample ID: 500-232968-28
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711833	AJP	EET CHI	05/07/23 18:51

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-15
Lab Sample ID: 500-232968-29
Date Collected: 04/26/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	711891	W1T	EET CHI	05/08/23 15:13
Total/NA	Analysis	8260B	DL	50	711891	W1T	EET CHI	05/08/23 15:40

Client Sample ID: MW-12
Lab Sample ID: 500-232968-30
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672918	B1Q	EET SAC	05/07/23 13:33
Total/NA	Analysis	537 (modified)		10	673927	K1S	EET SAC	05/11/23 17:22
Total/NA	Prep	3535	RE		675026	EFG	EET SAC	05/16/23 05:21
Total/NA	Analysis	537 (modified)	RE	1	675123	S1M	EET SAC	05/16/23 15:54
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		5	712962	FXG	EET CHI	05/11/23 21:03
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	713284	FXG	EET CHI	05/12/23 14:29

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-232968-31
Date Collected: 04/26/23 11:20
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			672918	B1Q	EET SAC	05/07/23 13:33
Total/NA	Analysis	537 (modified)		10	673927	K1S	EET SAC	05/11/23 17:32
Total/NA	Prep	3535	RE		675026	EFG	EET SAC	05/16/23 05:21
Total/NA	Analysis	537 (modified)	RE	1	675123	S1M	EET SAC	05/16/23 16:05
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		5	712962	FXG	EET CHI	05/11/23 21:06
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	713284	FXG	EET CHI	05/12/23 14:33

Client Sample ID: MW-9
Lab Sample ID: 500-232968-32
Date Collected: 04/26/23 13:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711891	W1T	EET CHI	05/08/23 16:06
Total/NA	Prep	3535	RE		676606	EFG	EET SAC	05/22/23 05:03
Total/NA	Analysis	537 (modified)	RE	1	676866	RS1	EET SAC	05/22/23 22:01
Total/NA	Prep	3535	DL		674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)	DL	100	675720	D1R	EET SAC	05/18/23 21:38
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 22:09

Client Sample ID: MW-19 DUP
Lab Sample ID: 500-232968-33

Date Collected: 04/25/23 10:45
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 19:26
Total/NA	Prep	3510C			711439	EC	EET CHI	05/04/23 13:41
Total/NA	Analysis	8082A		1	711639	SB	EET CHI	05/05/23 16:18
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 21:10

Client Sample ID: EB-06
Lab Sample ID: 500-232968-34

Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 16:16
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 18:13
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 21:13
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	713284	FXG	EET CHI	05/12/23 14:36

Client Sample ID: FB-06
Lab Sample ID: 500-232968-35

Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 18:23

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-232968-36

Date Collected: 04/25/23 00:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 15:04

Client Sample ID: MW-209
Lab Sample ID: 500-232968-37

Date Collected: 04/25/23 08:35
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 19:50
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 18:33

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200
Lab Sample ID: 500-232968-38
Date Collected: 04/25/23 10:15
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 18:44

Client Sample ID: PZ-200
Lab Sample ID: 500-232968-39
Date Collected: 04/25/23 11:10
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 18:54

Client Sample ID: MW-201
Lab Sample ID: 500-232968-40
Date Collected: 04/25/23 12:40
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 19:04

Client Sample ID: AMEC MW-14
Lab Sample ID: 500-232968-41
Date Collected: 04/25/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 19:14
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 21:17

Client Sample ID: MW-204
Lab Sample ID: 500-232968-42
Date Collected: 04/25/23 15:35
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 19:25

Client Sample ID: MW-213
Lab Sample ID: 500-232968-43
Date Collected: 04/25/23 16:35
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 20:14
Total/NA	Analysis	8260B	DL	10	711659	W1T	EET CHI	05/05/23 20:38
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 19:55

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-01
Lab Sample ID: 500-232968-44
Date Collected: 04/25/23 17:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 20:06

Client Sample ID: EB-01
Lab Sample ID: 500-232968-45
Date Collected: 04/25/23 17:05
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 16:39
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 20:16
Dissolved	Prep	3005A			712697	BDE	EET CHI	05/11/23 09:42 - 05/11/23 10:12 [1]
Dissolved	Analysis	6020A		1	712962	FXG	EET CHI	05/11/23 21:20

Client Sample ID: MW-82
Lab Sample ID: 500-232968-46
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 21:02

Client Sample ID: MW-82 DUP
Lab Sample ID: 500-232968-47
Date Collected: 04/26/23 09:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 21:26

Client Sample ID: MW-5
Lab Sample ID: 500-232968-48
Date Collected: 04/26/23 07:25
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 21:50

Client Sample ID: PZ-214
Lab Sample ID: 500-232968-49
Date Collected: 04/26/23 10:20
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 20:26

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-31
Lab Sample ID: 500-232968-50
Date Collected: 04/26/23 11:15
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 22:13

Client Sample ID: MW-48
Lab Sample ID: 500-232968-51
Date Collected: 04/26/23 12:35
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)	DL	5	675720	D1R	EET SAC	05/18/23 20:57
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:28
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 21:07

Client Sample ID: MW-219
Lab Sample ID: 500-232968-52
Date Collected: 04/26/23 13:35
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 22:37

Client Sample ID: EB-04
Lab Sample ID: 500-232968-53
Date Collected: 04/26/23 14:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 17:03
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:30
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 20:37

Client Sample ID: FB-04
Lab Sample ID: 500-232968-54
Date Collected: 04/26/23 14:05
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			674232	EFG	EET SAC	05/12/23 05:30
Total/NA	Analysis	537 (modified)		1	675720	D1R	EET SAC	05/18/23 20:47

Client Sample ID: MW-3
Lab Sample ID: 500-232968-55
Date Collected: 04/26/23 15:00
Matrix: Water
Date Received: 04/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	711659	W1T	EET CHI	05/05/23 23:01

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Former Mirro Plant No 9 - 1690019647

Job ID: 500-232968-1

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

QC: DCG

Chain of Custody Record

eurofins

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467 11
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: ~~Page 11 of 18~~ 1 of 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-232968

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 Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
City: Milwaukee	TAT Requested (days)	
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No	
Phone: 262-901-3510(Tel)	PO #: MIRRO 9	
Email: plindquist@ramboll.com	WO #:	
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382	
Site:	SSOW#:	Other:

500-232968 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)	PFC_IDA_WI - PFAS Standard List (33 analytes)	6020A 7470A (Sb)	8082A 8270D	8260B - VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A		
1 AMEC_MW-17	4-26-23	0822	G	Water	N	N	X	X				Sb
2 MW-121	4-26-23	1211	G	Water	N	N				X		
3 MW-121 Dup	4-26-23	1215	G	Water	N	N				X		
4 EB-5	↓	1400	G	Water	N	N	X	X		X		Sb
5 FB-5	↓	1405	G	Water	N	N	X					
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

4/26/23

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Sarah Martens	4-27-23 927		Received by:	4.27.23 927	Eurofins
Relinquished by:	4.27.23 1700	Eurofins	Received by:	4/28/23 0945	EEDA
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: 3.5→2.2, 2.9→1.8, 3.8→3.7, 2.4→2.3

Ver: 06/08/2021

5/31/2023

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

QC DCG

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah Sc Martin	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177 1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 2 of 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-232968
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 Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify); Other:
City: Milwaukee	TAT Requested (days): Standard			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll com	WO #:			
Project Name: Former Mirro Plant No 9 1690019647	Project #: 50018382			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Standard List (33 analytes)	Metals (Specify List)	PCB	VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	D	N	A		
6	AMEC-MW-15	4-25-23	0904	G	Water	N	N	X					
7	MW-235	4-25-23	0914	G	Water	N	N	X					
8	MW-236		1119		Water	N	N	X					
9	PZ-226		1250		Water	N	N	X					
10	~~MW-225~~ PZ-226 DUP		1255		Water	N	N	X					
11	MW-226		1353		Water	N	N	X					
12	MW-226 DUP		1358		Water	N	N	X					
13	AMEC-MW-16		1515		Water	N	N	X					
14	AMEC-MW-16A		1602		Water	N	N	X					
15	FB-2		1550		Water	N	N	X					
16	FB-2		1623		Water	N	N	X					

4/28/23 3/25-23

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	Sarah Sc Martin	4-27-23 927	Ramboll		4.27.23 0927	Eurofins
2		4-27-23 1700	Eurofins		4/28/23 0945	EBTD
3		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

QC - AM 4-26-23

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

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No.
	D. GLASFORD	Fredrick Sandie		500-112105-46467 12
Client Contact: Paul Lindquist	Phone	E Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~12 of 13~~ 3 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-232968
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #			
Project Name: Former Mirro Plant No 9 1690019647	Project #: 50018382			
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, Y Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	~~6020A, 7470A~~ METALS (Dissolved)	~~8082A 8270D~~ PCB	8260B - VOC	Total Number of containers	Special Instructions/Note
	Preservation Code:							N	D	N	A		
17	MW-233	4-25-23	755	G	Water					X			
18	MW-60		835		Water				X	X			AL
19	MW 67		935		Water					X			
20	MW-19		1040		Water				X	X	X		CR
21	MW-37		1153		Water					X	X		
22	MW-6		1305		Water				X	X	~~X~~ DG		AL, Pb NO VOC
23	MW-8		1400		Water						X		
24	AECOM MW-19		1455		Water						X		
25	MW-16		1550		Water						X		
26	EB-03	↓	1645		Water				X	X	X		AL, CR, Pb
27	PZ-206	4-26-23	810	↓	Water			X					

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
	4-27-23 927	RAMBOLL		4/27/23 927	Eurofins
Relinquished by	4.27.23 1700	Eurofins		4/28/23 0945	
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

Ver 06/08

5/31/2023

QC: AM 4-26-23

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

Chain of Custody Record

eurofins

Client Information	Sampler: D GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467 13
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page ~~13 of 13~~ 4 of 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-232968
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y Trizma, 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)	PFC_IDA_WI - PFAS Standard List (33 analytes)	6020A - 7470A - METALS (Dissolved)	8082A - 8270D - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	D	N	A		
28	MW-17	4-26-23	900	G	Water						X		
29	MW-15		1015		Water						X		screen
30	MW-12		1120		Water			X	X				AL, Sb, As, CR screen
31	MW-12 DUP		1120		Water			X	X				AL, SB, As, CR, screen
32	MW-9		1300		Water			X			X		screen
33	MW-19 DUP	4-25-23	~~1300~~ 1045						X	X	X		CR
34	EB-06	4-26-23	1400					X	X	~~X~~	X		no PCB
35	FB-06		1405					X					
36	TRIP BLANK	—	—	—	—						X		
		AM 4-26-23											

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: 4-27-23 917	Company: RAMBOLL	Received by		Date/Time: 4.27.23 09:27	Company: Eurofins
Relinquished by		Date/Time: 4.27.23 1700	Company: Eurofins	Received by		Date/Time: 4/28/23 0945	Company: ET
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

QC [illegible] 4-25-23

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177 1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-232968
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 Na2SO3; R Na2S2O3; S H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other:
City: Milwaukee	TAT Requested (days): Standard			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll com	WO #:			
Project Name: Former Mirro Plant No 9 1690019647	Project #: 50018382			
Site: Mirro 9	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI PFAS, Standard List (33 analytes)	6020A Metals (Specify List)	8082A PCB	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	D	N	A		
37	MW209	4/25/23	08:35	G	Water	N	N	X			X	5	
38	MW200	4/25/23	10:15	G	Water	N	N	X				2	
39	PZ200	4/25/23	11:10	G	Water	N	N	X				2	
40	MW201	4/25/23	12:40	G	Water	N	N	X				2	
41	AMEC MW14	4/25/23	14:05	G	Water	N	N	X	X			3	A1
42	MW 204	4/25/23	15:35	G	Water	N	N	X				2	
43	MW 213	4/25/23	16:35	G	Water	N	N	X			X	5	
44	FB-01	4/25/23	17:00	G	Water	N	N	X				2	
45	EB-01	4/25/23	17:05	G	Water	N	N	X	X		X	6	A1
46	MW82	4/26/23	9:00	G	Water	N	N	X			X	5	only VOC
47	MW82 DUP	4/26/23	9:00	G	Water	N	N	X			X	5	only VOC

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	[signature]	4-27-23 927	Ramboll	[signature]	4.27.23 9.27	Eurofins
2	[signature]	4.27.23 1700	Eurofins	[signature]	4/28/23 0945	EETA
3						

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins Environment Testing America

QC AJM 4-26-23

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177 1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-232968
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 Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site: Mro 9	SSOW#:			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)	PFC_IDA_WI PFAS Standard List (33 analytes)	6020A Metals (Specify List)	8082A PCB	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	D	N	A		
48	MW 5	4/26/23	7.25	G	Water	N	N	X	AJM		X	5	only VOC
49	P2214	4/26/23	10 20	G	Water	N	N	X				2	
50	MW31	4/26/23	11:15	G	Water	N	N	X	AJM		X	5	only VOC
51	MW 48	4/26/23	12:35	G	Water	N	N	X				2	
52	MW 219	4/26/23	13 35	G	Water	N	N	X	AJM		X	5	only VOC
53	EB04	4/26/23	14:00	G	Water	N	N	X			X	5	
54	FB-04	4/26/23	14:05	G	Water	N	N	X				2	
	PO ~~MW3~~	~~4/26/23~~		G	Water	N	N	X			X	3	
55	MW3	4/26/23	15:00	G	Water	N	N				X	3	
					Water								
		AJM 4-26-23			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	Sarah Kilmartin	4-27-23 927	Ramboll			
2		4.27.23 1700	Eurofins		4/28/23 0945	EAT
3						

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Sacramento
880 Riverside Parkway
West Sacramento CA 95605
Phone 916-373-5600 Fax 916-372 1059

Chain of Custody Record

eurofins

500-232968 COC

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick Sandie	COC No: 320-306135 1
Client Contact: Shipping/Receiving	Phone	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Wisconsin — Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Wisconsin	Job #: 500-232968-1
Address: 2417 Bond Street	Due Date Requested: 5/10/2023		
City: University Park	TAT Requested (days):		
State Zip: IL 60484			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #		
Email	WO #		
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382		
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, Y Trizma, 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)	6020A/FIELD_FLTRD (MOD) Metals (14)	6020A/3005A (MOD) Metals (14)	Total Number of containers	Special Instructions/Note
			Preservation Code:							
AMEC MW-17 (500-232968-1)	4/26/23	08 22 Central		Water			X	X	1	

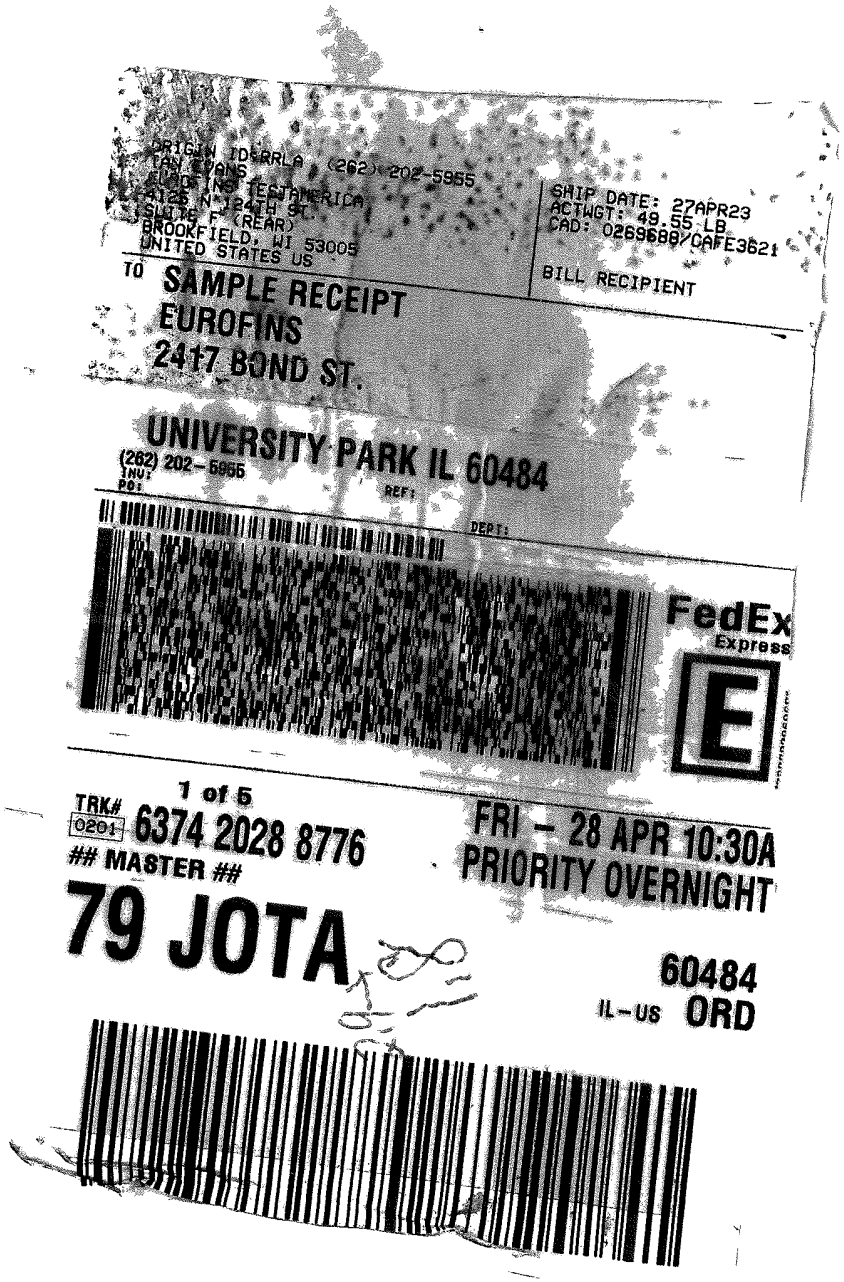
Note Since laboratory accreditations are subject to change Eurofins Environment Testing Northern California LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Northern California LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northern California LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northern California LLC

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:		
Relinquished by	Date/Time 5/11/23 1630	Company EET Sac	Received by Stephanie Hernandez	Date/Time 5/12/23 1010	Company EETIA
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 1.1+1.5


ORIGIN ID:RRLA (262) 2
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 50.15 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
500-232968 Waybi
(262) 202-5955
INV:
PO:
REF:
DEPT:
FedEx
Express
3 of 3
MPS# 0263 6374 2028 8846
Mstr# 6374 2028 8824
0201
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD


ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 27APR23
ACTWGT: 49.55 LB
CAD: 0269688/CAFE3621
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.
UNIVERSITY PARK IL 60484
(262) 202-5955
INV:
PO:
REF:
DEPT:
FedEx
Express
1 of 5
TRK# 0201 6374 2028 8776
MASTER
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27APR23
ACTWGT: 49.25 LB
CAD: 0269688/CAFE3621

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484
(262) 202-5955 REF:
INV:
PO: DEPT:

FedEx Express

5 of 5
MPS# 0263 6374 2028 8813
Mstr# 6374 2028 8776

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

0201

79 JOTA

60484
IL-US ORD

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 27APR23
ACTWGT: 49.90 LB
CAD: 0269688/CAFE3621

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484
(262) 202-5955 REF:
INV:
PO: DEPT:

FedEx Express

3 of 5
MPS# 0263 6374 2028 8798
Mstr# 6374 2028 8776

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

0201

79 JOTA

60484
IL-US ORD

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

QC: DCG

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.11
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~11 of 16~~ 1 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCl; M - Hexane; L - EDA; Z - other (specify); Other:

500-232968 Chain of Custody

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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8020A, 7470A (Sb)	8082A, 8270D	8260B - VOC	Special Instructions/Note:
			Preservation Code:		X	X	N	D	N	A	X
AMEC MW-17	4-26-23	0822	G	Water	N	N	X	X			Sb
MW-121	4-26-23	1211	G	Water	N	N				X	
MW-121 Dup	4-26-23	1215	G	Water	N	N				X	
EB-5		1400	G	Water	N	N	X	X		X	Sb
FB-5	↓	1405	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

AFM 4-26-23

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: Sarah Martens	Date/Time: 4-27-23 927	Company	Received by:	Date/Time: 4.27.23 9:27	Company Eurofins
Relinquished by:	Date/Time: 4.27.23 1700	Company Eurofins	Received by:	Date/Time: 4/28/23 0930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2133472 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

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

QC: DCG

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah So Martin	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 2 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
Preservation Code:					K	N	D	N	A		
AMEC-MW-15	4-25-23	0904	G	Water	N	N	X				
MW-235	4-25-23	1014	G	Water	N	N	X				
MW-236		1119		Water	N	N	X				
PZ-226		1250		Water	N	N	X				
~~MW-226~~ PZ-226 DUP		1255		Water	N	N	X				
MW-226		1353		Water	N	N	X				
MW-226 DUP		1358		Water	N	N	X				
AMEC-MW-16		1515		Water	N	N	X				
AMEC-MW-16A		1602		Water	N	N	X				
FB-2		1550		Water	N	N	X				
EB-2		1623		Water	N	N	X				

4/25-23

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	Sarah So Martin	4-27-23 927	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 8:30	EE Tech
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2133472 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 01/16/2019

Page 199 of 219

5/31/2023

QC: [illegible] 4-26-23

Eurofins 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: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.12
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: ~~Page 12 of 13~~ 3 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A, 7470A - METALS (Dissolved)	6020A, 7470A - PCB	8260B - VOC	Total Number of	Special Instructions/Note:
			Preserv	DN						
MW-233	4-25-23	755	G	Water			X			
MW-60		835		Water		X	X			AL
MW 67		935		Water			X			
MW-19		1040		Water		X	X	X		CR
MW-37		1153		Water			X	X		
MW-6		1305		Water		X	X	~~X~~ DG		AL, Pb NO VOC
MW-8		1400		Water				X		
AECOM MW-19		1455		Water				X		
MW-16		1550		Water				X		
EB-03	⇩	1645		Water		X	X	X		AL, CR, Pb
P2-206	4-26-23	810	⇩	Water	X					

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	[signature]	4-27-23 927	RAMBOLL	[signature]	4.27.23 9:27	Eurofins
2	[signature]	4.27.23 1700	Eurofins	[signature]	4/28/23 0932	ECTan
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2133472 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

QC: dfm 4-26-23

Eurofins 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: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.13
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~13~~ 4 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y - Trizma, 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)	Preservation Code	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A; 7470A - METALS (Dissolved)	8082A; 8270D - PCB	8260B - VOC	Special Instructions/Note:
MW-17	4.26.23	900	G	Water					X	
MW-15		1015		Water					X	SCREEN
MW-12		1120		Water		X	X			AL, Sb, As, CR SCREEN
MW-12 DUP		1120		Water		X	X			AL, SB, As, CR, SCREEN
MW-9		1300		Water		X			X	SCREEN
MW-19 DUP	4.25.23	~~1300~~ 1045					X	X	X	CR
EB-06	4.26.23	1400				X	X	~~X~~	X	NO PCB
FB-06		1405				X				
TRIP BLANK	—	—	—	—					X	
		AFM 4-26-23								

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		4.27.23 917	Ramboll		4.27.23 09:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0830	EETC
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133432 / 2133467
Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

QC: 4-25-23

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site: Mirro 9	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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	N	A	X
MW209	4/25/23	08:35	G	Water	N	N	X			X	5
MW200	4/25/23	10:15	G	Water	N	N	X				2
PZ200	4/25/23	11:10	G	Water	N	N	X				2
MW201	4/25/23	12:40	G	Water	N	N	X				2
AMEC MW14	4/25/23	14:05	G	Water	N	N	X	X			3 Al
MW 204	4/25/23	15:35	G	Water	N	N	X				2
MW 213	4/25/23	16:35	G	Water	N	N	X			X	5
FB-01	4/25/23	17:00	G	Water	N	N	X				2
EB-01	4/25/23	17:05	G	Water	N	N	X	X		X	4 Al
MW82	4/26/23	9:00	G	Water	N	N	X			X	3 only VOC
MW82 DUP	4/26/23	9:00	G	Water	N	N	X			X	3 only VOC

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		4-27-23 927	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/25/23 0930	Eurofins
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2123432 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3 1.6

Ver: 01/16/2019

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

Chain of Custody Record

eurofins Environment Testing America

QC: AMM 4-26

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site: Mirro 9	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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
					X	N			A	X	
MW 5	4/26/23	7:25	G	Water	N	N	X	AMM	X	5	only VOC
P2214	4/26/23	10:20	G	Water	N	N	X			4	
MW31	4/26/23	11:15	G	Water	N	N	X	AMM	X	5	only VOC
MW 48	4/26/23	12:35	G	Water	N	N	X			4	
MW 219	4/26/23	13:35	G	Water	N	N	X	AMM	X	5	only VOC
EB04	4/26/23	14:00	G	Water	N	N	X		X	4	
FB-04	4/26/23	14:05	G	Water	N	N	X			4	
~~PO MW3~~	~~4/26/23~~		G	Water	N	N	X		X	3	
MW3	4/26/23	15:00	G	Water	N	N			X	3	
				Water							
AMM	4-26-23			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		4-27-23 927	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	EEC
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133772 / 2123467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 01/16/2019

QC: DCG

Eurofins 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: Sarah Jo Martens	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.11
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: ~~Page 11 of 18~~ 1 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl
M - Hexane
L - EDA
Z - other (specify)
Other:

500-232968 Chain of Custody

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)	PFC_IDA_WI - PFAS, Standard List (33 analytes) (Sb)	6020A, 7470A	8082A, 8270D	8260B - VOC	Special Instructions/Note:
					Perform MS/MSD (Yes or No)						
AMEC_MW-17	4-26-23	0822	G	Water	N	N	X	X			Sb
MW-121	4-26-23	1211	G	Water	N	N				X	
MW-121 Dup	4-26-23	1215	G	Water	N	N				X	
EB-5	↓	1400	G	Water	N	N	X	X		X	Sb
FB-5	↓	1405	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

4/m 4-26-23

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	Sarah Martens	4-27-23 927			4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133472 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

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

QC: DCG

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sarah So Martin	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 2 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Other:
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, Y - Trizma, Z - other (specify)

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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N	N	N	A		
(6) AMEC-MW-15	4-25-23	0904	G	Water	N	N	X				
MW-235	4-25-23	1014	G	Water	N	N	X				
MW-236		1119		Water	N	N	X				
PZ-226		1250		Water	N	N	X				
~~MW-226~~ PZ-226 DUP		1255		Water	N	N	X				
(11) MW-226		1353		Water	N	N	X				
(12) MW-226 DUP		1358		Water	N	N	X				
AMEC-MW-16		1515		Water	N	N	X				
AMEC-MW-16A		1602		Water	N	N	X				
FB-2		1550		Water	N	N	X				
EB-2		1623		Water	N	N	X				

4/25-23

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:

	Date/Time	Company		Date/Time	Company
Relinquished by: Sarah So Martin	4-27-23 927	Ramboll	Received by:	4.27.23 9:27	Eurofins
Relinquished by:	4.27.23 1700	Eurofins	Received by:	4/28/23 8:30	EE Bev
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133472 / 2133463

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

(6) no time 5/31/23
(11) (12) no time 5/31/23

Ver: 01/16/2019

Page 205 of 219
5/31/2023

QC: [illegible] 4-26-23

Eurofins 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: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.12
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~12 of 13~~ 3 of 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #:
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 - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Milwaukee	TAT Requested (days):			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			Other:
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	~~8260A, 7470A~~ METALS (Dissolved)	~~8082A, 8270D~~ PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
MW-233	4-26-23	755	G	Water			X			
MW-60		835		Water		X	X			AL
MW 67		935		Water			X			
MW-19		1040		Water		X	X	X		CR
MW-37		1153		Water			X	X		
MW-6		1305		Water		X	X	~~X~~ DG		AL, Pb NO VOC
MW-8		1400		Water				X		
AECOM MW-19		1455		Water				X		
MW-16		1550		Water				X		
EB-03		1645		Water		X	X	X		AL, CR, Pb
P2-206	4-26-23	810		Water	X					

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	[signature]	4-27-23 927	RAMBOLL	[signature]	4.27.23 9:27	Eurofins
2	[signature]	4.27.23 1700	Eurofins	[signature]	4/28/23 0932	EETTar
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 213372 / 213367

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

QC: AJM 4-26-23

Eurofins 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: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112105-46467.13
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~48 of 13~~ 4 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
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: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A, 7470A METALS (Dissolved)	8082A, 8270D PCB	8260B - VOC	Special Instructions/Note:
MW-17	4-26-23	900	G	Water				X	
MW-15		1015		Water				X	SCREEN
MW-12		1120		Water	X	X			AL, Sb, As, CR SCREEN
MW-12 DUP		1120		Water	X	X			AL, SB, As, CR, SCREEN
MW-9		1300		Water	X			X	SCREEN
MW-19 DUP	4-25-23	~~1300~~ 1045				X	X	X	CR
EB-06	4-26-23	1400			X	X	~~X~~	X	NO PCB
FB-06		1405			X				
TRIP BLANK	—	—	—	—				X	

AJM 4-26-23

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		4-27-23 917	RAMBOLL		4.27.23 09:27	Eurofins
2	Relinquished by:	4.27.23 1700	Eurofins	Received by:	4/28/23 0930	EETC
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 2133472 / 2133467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 06/08/2021

QC: 4-25-23

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site: Mirro 9	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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
MW209	4/25/23	08:35	G	Water	N	N	X			X		
MW200	4/25/23	10:15	G	Water	N	N	X					
PZ200	4/25/23	11:10	G	Water	N	N	X					
MW201	4/25/23	12:40	G	Water	N	N	X					
AMEC MW14	4/25/23	14:05	G	Water	N	N	X	X				A1
MW 204	4/25/23	15:35	G	Water	N	N	X					
MW213	4/25/23	16:35	G	Water	N	N	X			X		
FB-01	4/25/23	17:00	G	Water	N	N	X					
EB-01	4/25/23	17:05	G	Water	N	N	X	X		X		A1
MW82	4/26/23	9:00	G	Water	N	N	X			X		only VOC
MW82 DUP	4/26/23	9:00	G	Water	N	N	X			X		only VOC

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: 4-27-23 927	Company: Ramboll	Received by:	Date/Time: 4.27.23 9:27	Company: Eurofins		
Relinquished by:	Date/Time: 4-27-23 1700	Company: Eurofins	Received by:	Date/Time: 4/28/23 0930	Company: Eurofins		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133472 / 2133467
Cooler Temperature(s) °C and Other Remarks: 3.3 1.6

Ver: 01/16/2019

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

Chain of Custody Record

eurofins Environment Testing America

QC: AJM 4-26

Client Information	Sampler: Parker Osborne	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-106210-45177.1
Client Contact: Paul Lindquist	Phone: 317-964-3851	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): Standard			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: MIRRO 9			
Email: plindquist@ramboll.com	WO #:			
Project Name: Former Mirro Plant No 9 - 1690019647	Project #: 50018382			
Site: Mirro 9	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, Y - Trizma, 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)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	6020A - Metals (Specify List)	8082A - PCB	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	N	A	X	
MW 5	4/26/23	7:25	G	Water	N	N	X			X		only VOC
P2 14	4/26/23	10:20	G	Water	N	N	X					
MW 31	4/26/23	11:15	G	Water	N	N	X			X		only VOC
MW 48	4/26/23	12:35	G	Water	N	N	X					
MW 219	4/26/23	13:35	G	Water	N	N	X			X		only VOC
EB-04	4/26/23	14:00	G	Water	N	N	X			X		
FB-04	4/26/23	14:05	G	Water	N	N	X					
~~MW 3~~	~~4/26/23~~		G	Water	N	N	X			X		
MW3	4/26/23	15:00	G	Water	N	N				X		
				Water								
AJM	4-26-23			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		4-27-23 927	Ramboll		4.27.23 9:27	Eurofins
2		4.27.23 1700	Eurofins		4/28/23 0930	Eurofins
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2133772 / 2123467

Cooler Temperature(s) °C and Other Remarks: 3.3, 2.6

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-232968-1

Login Number: 232968
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins 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	2.2,1.8,3.7,2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-232968-1

Login Number: 232968
List Number: 2
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 05/01/23 11:37 AM

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	2133472/2133467
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	3.3C, 2.6C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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

500-232968 Field Sheet

Job: _____

Tracking # : 6374 2028 8754

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: 103 Corr. Factor: (+ / -) N/A °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 2133472

Cooler ID: 10f2

Temp Observed: 3.3 °C Corrected: 3.3 °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: SO Date: 5/12/23

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
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: SO Date: 5/11/23

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?	☑ SO 5/11/23	☐	☑

Initials: SO Date: 5/11/23

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Sacramento
Sample Receiving Notes

Place Field Sheet Label Here

Tracking # : 6374 2028 8765

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: 603 Corr. Factor: (+ / -) N/A °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 2133467

Cooler ID: 2 of 2

Temp Observed: 2.6 °C Corrected: 2.6 °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: SO Date: 5/12/23

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
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: SO Date: 5/11/23

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?	☐ SO 5/11/23	☐	☑

Initials: SO Date: 5/11/23

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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)
500-232968-1	AMEC MW-17	92	99	102	108	109	103	102	106
500-232968-4	EB-5	101	101	101	109	101	108	113	119
500-232968-5	FB-5	108	109	108	117	108	111	114	113
500-232968-6	AMEC MW-15	56	78	95	98	105	108	111	112
500-232968-7	MW-235	89	92	93	95	94	93	87	69
500-232968-8	MW-236	81	93	95	100	102	97	96	101
500-232968-9	PZ-226	96	99	104	109	104	108	112	111
500-232968-10	PZ-226 DUP	95	103	105	107	101	108	113	115
500-232968-11	MW-226	70	89	92	94	103	89	81	75
500-232968-12	MW-226 DUP	64	78	84	83	87	80	74	61
500-232968-13	AMEC MW-16	56	72	84	92		93	94	89
500-232968-13 - DL	AMEC MW-16					102			
500-232968-14	AMEC MW-16A	90	102	108	111	103	113	104	108
500-232968-15	FB-2	106	101	104	109	102	108	115	118
500-232968-16	EB-2	105	103	105	111	103	106	109	117
500-232968-27	PZ-206	85	97	101	107	104	107	106	107
500-232968-30	MW-12		19 *5-	50	91	97	116	132	175 *5+
500-232968-30 - RE	MW-12	32							
500-232968-31	MW-12 DUP		11 *5-	50	88	96	108	124	152 *5+
500-232968-31 - RE	MW-12 DUP	30							
500-232968-32 - DL	MW-9		56						
500-232968-32	MW-9		16 *5-	29	48	80	109	91	87
500-232968-32 - RE	MW-9	65							
500-232968-32 MS - DL	MW-9		74						
500-232968-32 MS	MW-9		16 *5-	28	45	74	92	74	76
500-232968-32 MS - RE	MW-9	62							
500-232968-32 MSD - DL	MW-9		81						
500-232968-32 MSD	MW-9		17 *5-	28	45	71	92	72	76
500-232968-32 MSD - RE	MW-9	58							
500-232968-34	EB-06	119	119	113	111	100	118	125	116
500-232968-35	FB-06	118	108	115	120	104	121	111	112
500-232968-37	MW-209	136	111	128	128	105	111	108	110
500-232968-38	MW-200	99	96	99	89	83	91	93	78
500-232968-39	PZ-200	116	115	128	122	105	116	106	100
500-232968-40	MW-201	106	104	114	129	106	103	104	100
500-232968-41	AMEC MW-14	99	95	103	100	91	97	94	82
500-232968-42	MW-204	118	102	116	123	103	108	111	100
500-232968-43	MW-213	74	71	78	94	108	89	77	86
500-232968-44	FB-01	117	103	108	102	98	119	123	108
500-232968-45	EB-01	107	111	111	107	102	116	121	111
500-232968-49	PZ-214	93	90	107	111	99	98	101	93
500-232968-51 - DL	MW-48					94			
500-232968-51	MW-48	80	72	79	94		81	88	81
500-232968-53	EB-04	111	116	110	108	103	118	131	123
500-232968-54	FB-04	99	113	123	130	104	134	133	114
LCS 320-672361/2-A	Lab Control Sample	108	100	102	108	108	106	118	117
LCS 320-672918/2-A	Lab Control Sample	103	98	100	109	104	102	102	101
LCS 320-674232/2-A	Lab Control Sample	107	120	131	110	105	109	119	120
LCS 320-675026/2-A	Lab Control Sample	99	93	102	109	102	96	105	107

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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

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)
LCS 320-676606/2-A	Lab Control Sample	97							
LCSD 320-672361/3-A	Lab Control Sample Dup	105	98	102	109	105	107	112	115
LCSD 320-672918/3-A	Lab Control Sample Dup	104	99	101	105	104	99	105	111
MB 320-672361/1-A	Method Blank	105	102	105	108	103	112	113	120
MB 320-672918/1-A	Method Blank	104	103	107	109	102	109	109	116
MB 320-674232/1-A	Method Blank	125	130	126	123	112	120	136	114
MB 320-675026/1-A	Method Blank	92	99	102	105	100	102	104	101
MB 320-676606/1-A	Method Blank	97							

		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)
500-232968-1	AMEC MW-17	101	110	102	107	113	132	137	141
500-232968-4	EB-5	113	109	103	103	117	124	150	140
500-232968-5	FB-5	112	103	105	108	110	123	121	136
500-232968-6	AMEC MW-15	106	106	98	98	103	130	144	145
500-232968-7	MW-235	59	67	88	93	94	111	87	82
500-232968-8	MW-236	95	100	96	99	105	116	128	128
500-232968-9	PZ-226	112	112	105	111	118	129	149	147
500-232968-10	PZ-226 DUP	114	118	105	109	111	130	147	154 *5+
500-232968-11	MW-226	58	57	92	90	87	95	98	90
500-232968-12	MW-226 DUP	50	51	82	79	75	82	81	71
500-232968-13	AMEC MW-16	89	95	81	90	91	109	122	114
500-232968-13 - DL	AMEC MW-16								
500-232968-14	AMEC MW-16A	103	107	101	108	115	134	138	136
500-232968-15	FB-2	116	123	104	111	121	133	152 *5+	161 *5+
500-232968-16	EB-2	122	101	104	105	108	122	131	150
500-232968-27	PZ-206	99	92	96	97	105	125	135	138
500-232968-30	MW-12	180 *5+	107	107	129	148	129	143	177 *5+
500-232968-30 - RE	MW-12								
500-232968-31	MW-12 DUP	166 *5+	93	101	122	132	131	134	152 *5+
500-232968-31 - RE	MW-12 DUP								
500-232968-32 - DL	MW-9								
500-232968-32	MW-9	105	134	84	176 *5+	151 *5+	65	48	65
500-232968-32 - RE	MW-9								
500-232968-32 MS - DL	MW-9								
500-232968-32 MS	MW-9	79	109	64	161 *5+	124	58	40	54
500-232968-32 MS - RE	MW-9								
500-232968-32 MSD - DL	MW-9								
500-232968-32 MSD	MW-9	84	118	63	147	123	56	41	56
500-232968-32 MSD - RE	MW-9								
500-232968-34	EB-06	110	94	123	98	121	116	116	120
500-232968-35	FB-06	104	86	115	112	121	109	106	110
500-232968-37	MW-209	99	77	124	98	107	113	115	122
500-232968-38	MW-200	73	54	90	73	90	89	83	79
500-232968-39	PZ-200	99	82	124	110	117	122	102	108
500-232968-40	MW-201	91	72	104	106	105	103	96	102
500-232968-41	AMEC MW-14	76	57	99	93	98	95	87	87
500-232968-42	MW-204	98	81	109	97	104	110	106	110
500-232968-43	MW-213	73	57	92	110	70	77	83	85
500-232968-44	FB-01	105	88	103	96	116	113	111	114

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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

Matrix: Water
Prep Type: Total/NA

		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)
500-232968-45	EB-01	101	86	114	93	117	114	106	112
500-232968-49	PZ-214	82	69	103	89	98	102	87	98
500-232968-51 - DL	MW-48								
500-232968-51	MW-48	73	62	80	80	71	81	78	82
500-232968-53	EB-04	112	100	117	103	127	122	120	121
500-232968-54	FB-04	118	99	120	105	128	125	119	125
LCS 320-672361/2-A	Lab Control Sample	121	124	104	110	116	124	149	145
LCS 320-672918/2-A	Lab Control Sample	105	102	101	102	107	110	119	121
LCS 320-674232/2-A	Lab Control Sample	112	96	117	109	119	114	121	117
LCS 320-675026/2-A	Lab Control Sample	104	97	94	97	92	86	81	77
LCS 320-676606/2-A	Lab Control Sample								
LCSD 320-672361/3-A	Lab Control Sample Dup	112	119	103	109	113	124	145	149
LCSD 320-672918/3-A	Lab Control Sample Dup	103	108	101	107	112	118	130	142
MB 320-672361/1-A	Method Blank	113	118	104	106	112	127	141	142
MB 320-672918/1-A	Method Blank	113	103	100	103	114	120	140	144
MB 320-674232/1-A	Method Blank	120	96	130	106	137	128	132	128
MB 320-675026/1-A	Method Blank	100	94	88	92	93	80	76	81
MB 320-676606/1-A	Method Blank								

		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)
500-232968-1	AMEC MW-17	113	102	101	104	84	76	83	97
500-232968-4	EB-5	112	109	114	112	77	73	95	100
500-232968-5	FB-5	114	110	108	115	72	70	91	115
500-232968-6	AMEC MW-15	105	103	99	101	120	139	122	93
500-232968-7	MW-235	65	57	55	57	66	65	67	87
500-232968-8	MW-236	105	94	94	94	91	77	76	91
500-232968-9	PZ-226	118	111	115	110	77	76	93	101
500-232968-10	PZ-226 DUP	122	116	112	110	78	78	82	98
500-232968-11	MW-226	58	56	53	57	86	76	64	82
500-232968-12	MW-226 DUP	51	46	47	46	65	57	56	76
500-232968-13	AMEC MW-16	93	89	87	88	90	82	73	81
500-232968-13 - DL	AMEC MW-16								
500-232968-14	AMEC MW-16A	113	106	104	103	79	75	89	103
500-232968-15	FB-2	105	107	115	117	74	77	87	99
500-232968-16	EB-2	92	102	104	110	77	81	78	105
500-232968-27	PZ-206	102	98	102	96	78	77	86	101
500-232968-30	MW-12	140	125	140	120	30	163 *5+	176 *5+	50
500-232968-30 - RE	MW-12								
500-232968-31	MW-12 DUP	134	126	126	115	30	182 *5+	171 *5+	47
500-232968-31 - RE	MW-12 DUP								
500-232968-32 - DL	MW-9								
500-232968-32	MW-9	106	108	108	108	107	380 *5+	215 *5+	73
500-232968-32 - RE	MW-9								
500-232968-32 MS - DL	MW-9								
500-232968-32 MS	MW-9	90	91	80	85	80	343 *5+	153 *5+	68
500-232968-32 MS - RE	MW-9								
500-232968-32 MSD - DL	MW-9								
500-232968-32 MSD	MW-9	93	96	86	87	101	253 *5+	165 *5+	67
500-232968-32 MSD - RE	MW-9								

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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

Matrix: Water
Prep Type: Total/NA

		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)
500-232968-34	EB-06	107	100	115	115	89	78	108	121
500-232968-35	FB-06	95	98	106	108	85	80	91	121
500-232968-37	MW-209	104	96	99	97	120	93	101	117
500-232968-38	MW-200	73	68	68	66	73	63	83	96
500-232968-39	PZ-200	117	104	99	99	109	85	88	115
500-232968-40	MW-201	94	92	93	95	130	102	98	99
500-232968-41	AMEC MW-14	80	75	79	69	113	92	88	92
500-232968-42	MW-204	106	100	93	95	122	106	101	106
500-232968-43	MW-213	85	78	77	76	116	188 *5+	92	99
500-232968-44	FB-01	100	99	103	105	81	81	96	108
500-232968-45	EB-01	112	103	102	105	79	76	95	115
500-232968-49	PZ-214	97	90	88	88	100	103	97	95
500-232968-51 - DL	MW-48								
500-232968-51	MW-48	78	73	71	75	94	100	79	77
500-232968-53	EB-04	112	103	113	112	73	87	110	118
500-232968-54	FB-04	118	107	116	117	80	78	105	123
LCS 320-672361/2-A	Lab Control Sample	105	104	110	112	79	77	93	98
LCS 320-672918/2-A	Lab Control Sample	92	88	106	100	77	69	80	96
LCS 320-674232/2-A	Lab Control Sample	104	103	112	111	82	82	100	124
LCS 320-675026/2-A	Lab Control Sample	69	65	58	57	89	103	106	116
LCS 320-676606/2-A	Lab Control Sample								
LCSD 320-672361/3-A	Lab Control Sample Dup	103	101	112	107	80	81	91	96
LCSD 320-672918/3-A	Lab Control Sample Dup	99	96	108	109	78	73	80	97
MB 320-672361/1-A	Method Blank	111	109	112	113	78	73	90	101
MB 320-672918/1-A	Method Blank	94	89	104	108	73	75	86	107
MB 320-674232/1-A	Method Blank	116	106	123	120	93	96	119	129
MB 320-675026/1-A	Method Blank	69	65	55	56	88	97	117	109
MB 320-676606/1-A	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M102FTS (25-150)							
500-232968-1	AMEC MW-17	101							
500-232968-4	EB-5	104							
500-232968-5	FB-5	114							
500-232968-6	AMEC MW-15	104							
500-232968-7	MW-235	54							
500-232968-8	MW-236	95							
500-232968-9	PZ-226	109							
500-232968-10	PZ-226 DUP	109							
500-232968-11	MW-226	56							
500-232968-12	MW-226 DUP	45							
500-232968-13	AMEC MW-16	82							
500-232968-13 - DL	AMEC MW-16								
500-232968-14	AMEC MW-16A	93							
500-232968-15	FB-2	115							
500-232968-16	EB-2	146							
500-232968-27	PZ-206	96							
500-232968-30	MW-12	212 *5+							
500-232968-30 - RE	MW-12								
500-232968-31	MW-12 DUP	174 *5+							

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	M102FTS (25-150)						
500-232968-31 - RE	MW-12 DUP							
500-232968-32 - DL	MW-9							
500-232968-32	MW-9	102						
500-232968-32 - RE	MW-9							
500-232968-32 MS - DL	MW-9							
500-232968-32 MS	MW-9	74						
500-232968-32 MS - RE	MW-9							
500-232968-32 MSD - DL	MW-9							
500-232968-32 MSD	MW-9	83						
500-232968-32 MSD - RE	MW-9							
500-232968-34	EB-06	96						
500-232968-35	FB-06	80						
500-232968-37	MW-209	87						
500-232968-38	MW-200	60						
500-232968-39	PZ-200	76						
500-232968-40	MW-201	69						
500-232968-41	AMEC MW-14	59						
500-232968-42	MW-204	82						
500-232968-43	MW-213	67						
500-232968-44	FB-01	79						
500-232968-45	EB-01	83						
500-232968-49	PZ-214	65						
500-232968-51 - DL	MW-48							
500-232968-51	MW-48	59						
500-232968-53	EB-04	85						
500-232968-54	FB-04	88						
LCS 320-672361/2-A	Lab Control Sample	113						
LCS 320-672918/2-A	Lab Control Sample	95						
LCS 320-674232/2-A	Lab Control Sample	92						
LCS 320-675026/2-A	Lab Control Sample	124						
LCS 320-676606/2-A	Lab Control Sample							
LCSD 320-672361/3-A	Lab Control Sample Dup	108						
LCSD 320-672918/3-A	Lab Control Sample Dup	105						
MB 320-672361/1-A	Method Blank	108						
MB 320-672918/1-A	Method Blank	108						
MB 320-674232/1-A	Method Blank	104						
MB 320-675026/1-A	Method Blank	122						
MB 320-676606/1-A	Method Blank							

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

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-232968-1
Project/Site: Former Mirro Plant No 9 - 1690019647

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