From: Paul Lindquist <PLINDQUIST@ramboll.com>
Sent: Thursday, February 23, 2023 12:17 PM
To: Beggs, Tauren R - DNR
Cc: Kristin Jones (Kristin.Jones@newellco.com); Jeanne Tarvin; Susan Petrofske
Subject: BRRTS #: 02-36-545108 (MIRRO PLT 9 [Former] - LGU) - Data Transmittal Letter: January 2023 Groundwater Sampling
Attachments: NR 716.14 Data Transmittal_WDNR_Final.pdf

Good afternoon Tauren,

Attached for your records is a copy of the data transmittal letter for the January 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

Managing Consultant
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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
JANUARY 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 January 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 January 9 and 11, 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 contact us at the numbers listed below.

Yours sincerely,

Paul D. Lindquist
Managing Consultant

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Jeanne M. Tarvin, PG, CPG
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cc: Kristin Jones, NOC

February 22, 2023

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ATTACHMENT A

TABLE AND FIGURE

Table 1: January 2023 Groundwater Analytical Results

Figure 1: Site Layout and Monitoring Well Network

Table 1. January 2023 Groundwater Analytical Results - PFAS

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

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	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	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-14	1/11/2023	**186.3**	<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	4.6	<1.9 U	<1.9 U	<1.9 U	5.1	<1.9 U	6.3	0.38 J	19	<1.9 U	<1.9 U	15	29	0.33 J	**180**	23	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC_MW-15	1/9/2023	**350**	<1.9 U	<1.9 UJ	<4.6 U	<1.9 U	<3.7 U	<1.9 U	<4.6 U	<1.9 U	<1.9 U	<4.6 U	<3.7 U	<1.9 U	25	<1.9 U	<1.9 U	<1.9 U	3.5	<1.9 U	<1.9 U	<1.9 U	18	<1.9 U	<1.9 U	12	8.6	<1.9 U	**350**	9.5	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC_MW-16	1/10/2023	**650**	<1.9 U	<1.9 UJ	<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	1.7 J	<1.9 U	<1.9 U	<1.9 U	9.9	<1.9 U	<1.9 U	45	16	0.77 J	**650**	3.9	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC_MW-16A	1/10/2023	7.5	<1.9 U	<1.9 UJ	<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	0.56 J	<1.9 U	<1.9 U	<1.9 U	<4.7 U	<1.9 U	<1.9 U	1.2 J	1.5 J	<1.9 U	7.5	0.73 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
AMEC_MW-17	1/11/2023	**59.3**	<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	2	<1.9 U	<1.9 U	<1.9 U	1.3 J	<1.9 U	2.3	<1.9 U	5.4	<1.9 U	<1.9 U	3.4	2.1	0.37 J	**57**	2.2	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-12	1/11/2023	**8,000**	<50 U	<50 U	<130 U	<50 U	<100 U	<50 U	<130 U	<50 U	<50 U	<130 U	<100 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	**88,000** J	<50 U	<50 U	280 J	<50 U	<50 U	**8,000**	<50 UJ	<50 U	<50 U	<50 U	<50 U
MW-12 DUP	1/11/2023	**7100**	<50 U	<50 U	<130 U	<50 U	<100 U	<50 U	<130 U	<50 U	<50 U	<130 U	<100 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	**150,000** J	<50 U	<50 U	<50 UJ	<50 U	<50 U	**7,100**	<50 UJ	<50 U	<50 U	<50 U	<50 U
MW-121	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--
MW-16	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-200	1/11/2023	**115.4**	<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	<1.9 U	12	<1.9 U	<1.9 U	<1.9 U	3.6	<1.9 U	5.4	0.34 J	7.4	<1.9 U	<1.9 U	5.3	6.2	0.32 J	**110**	8.2	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-201	1/9/2023	**224.4**	<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	2.9	<1.9 U	<1.9 U	<1.9 U	7.1	<1.9 U	4.4	0.37 J	32	<1.9 U	<1.9 U	13	59	<1.9 U	**220**	50	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-204	1/9/2023	**137**	<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	1.8 J	<1.9 U	<1.9 U	0.3 J	35	<1.9 U	**27**	0.59 J	8.6	0.38 J	<1.9 U	6.5	7.6	0.77 J	**110**	4.3	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-209	1/10/2023	**87**	<1.9 U	<1.9 UJ	<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	2.2	<1.9 U	<1.9 U	0.21 J	8.6	<1.9 U	15	0.36 J	7.4	0.39 J	<1.9 U	5.1	4.1	0.62 J	**72**	3.6	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-209 DUP	1/10/2023	**76**	<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	2.4	<1.9 U	<1.9 U	0.2 J	7.8	<1.9 U	13	0.28 J	8.1	0.35 J	<1.9 U	4.4	4.2	0.55 J	**63**	3.8	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-213	1/9/2023	**660**	<20 U	<20 U	<50 U	<20 U	<40 U	<20 U	<50 U	<20 U	<20 U	<50 U	<40 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	41 J	<20 U	<20 U	45	12 J	<20 U	**660**	<20 U	<20 U	<20 U	<20 U	<20 U
MW-213 DUP	1/9/2023	**616.5**	<20 U	<20 U	<50 U	<20 U	<40 U	<20 U	<50 U	<20 U	<20 U	<50 U	<40 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	6.5 J	<20 U	37 J	<20 U	<20 U	40	8.6 J	<20 U	**610**	<20 U	<20 U	<20 U	<20 U	<20 U
MW-217	1/10/2023	2.8	<1.9 U	<1.9 UJ	<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	1 J	1.7 J	<1.9 U	2.8	0.98 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-217 DUP	1/10/2023	2.9	<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	3 J	<1.9 U	<1.9 U	1.1 J	1.4 J	<1.9 U	2.9	0.86 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-218	1/9/2023	**80.1**	<1.9 U	<1.9 UJ	<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	1.8 J	<1.9 U	<1.9 U	<1.9 U	0.82 J	<1.9 U	1.1 J	<1.9 U	6.6	<1.9 U	<1.9 U	2.5	2.2	0.27 J	**79**	2.3	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-219	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-226	1/10/2023	**260**	<20 U	<20 UJ	<50 U	<20 U	<40 U	<20 U	<50 U	<20 U	<20 U	<50 U	<40 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<50 U	<20 U	<20 U	13 J	13 J	<20 U	**260**	8.3 J	<20 U	<20 U	<20 U	<20 U
MW-228	1/9/2023	**39.95**	<2 U	<2 UJ	<5 U	<2 U	<4 U	<2 U	<5 U	<2 U	<2 U	<5 U	<4 U	<2 U	2.7	<2 U	<2 U	<2 U	0.72 J	<2 U	0.95 J	<2 U	6.8	<2 U	<2 U	3.4	2.9	<2 U	**39**	1.9 J	<2 U	<2 U	<2 U	<2 U
MW-235	1/10/2023	**77**	<1.9 U	<1.9 UJ	<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	2.4	<1.9 U	<1.9 U	<1.9 U	1.2 J	<1.9 U	<1.9 U	<1.9 U	8	<1.9 U	<1.9 U	4.2	4	<1.9 U	**77**	1.9	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-236	1/10/2023	**96.7**	<1.9 U	<1.9 UJ	<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	1.1 J	<1.9 U	1.7 J	<1.9 U	11	<1.9 U	<1.9 U	6.6	4.8	<1.9 U	**95**	3.5	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-3	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-31	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-48	1/10/2023	**1,108.2**	<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	1.4 J	<1.9 U	8.2	<1.9 U	4.9	<1.9 U	<1.9 U	42	12	1.4 J	**1,100**	3.2	<1.9 U	<1.9 U	<1.9 U	<1.9 U
MW-5	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/10/2023	**2,900**	<10 U	<10 U	<25 U	<10 U	<20 U	<10 U	<25 U	<10 U	<10 U	<25 U	<20 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	1,600 J	<10 U	<10 U	160 J	<10 U	<10 U	**2,900**	430	<10 U	<10 U	<10 U	<10 U
MW-9 DUP	1/10/2023	**2700**	<100 U	<100 U	<250 U	<100 U	<200 U	<100 U	<250 U	<100 U	<100 U	<250 U	<200 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	780 J	<100 U	<100 U	140 J	<100 U	<100 U	**2,700**	470	<100 U	<100 U	<100 U	<100 U
PZ-200	1/11/2023	5.5	<1.9 U	<1.9 U	<4.9 U	<1.9 U	<3.9 U	<1.9 U	<4.9 U	<1.9 U	<1.9 U	<4.9 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	<4.9 U	<1.9 U	<1.9 U	1.5 J	<1.9 U	0.26 J	5.5	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-206	1/9/2023	2.4	<1.9 U	<1.9 U	<4.9 U	<1.9 U	<3.9 U	<1.9 U	<4.9 U	<1.9 U	<1.9 U	<4.9 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	<4.9 U	<1.9 U	<1.9 U	0.51 J	0.82 J	<1.9 U	2.4	0.71 J	<1.9 U	<1.9 U	<1.9 U	<1.9 U
PZ-214	1/10/2023	51	<2 U	<2 U	<4.9 U	<2 U	<3.9 U	<2 U	<4.9 U	<2 U	<2 U	<4.9 U	<3.9 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	3.2 J	<2 U	<2 U	2.4	1.9 J	<2 U	**51**	<2 U	<2 U	<2 U	<2 U	<2 U
PZ-226	1/10/2023	3.3	<1.9 U	<1.9 UJ	<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 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	1.1 J	1.5 J	0.42 J	3.3	1.1 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

See page 3 for additional foonotes.

Screening Levels:
PAL and ES from WI Administrative Code NR 140 groundwater quality standards are proposed for PFAS.
(https://www.dhs.wisconsin.gov/water/gws-cycle11.htm)
(https://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf)

Table 1. January 2023 Groundwater Analytical Results - VOC
Former Mirro Plant No. 9
1512 Washington Street, Manitowoc, WI 54220
FID No.: 436033730 BRRTS No.: 02-36-545108

		BTEX				VOC																																
Sample Location	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes, Total	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	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trimethylbenzenes, Total [2]	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	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	µg/L	µg/L	µg/L	µg/L	µg/L
WI Groundwater ES:		**5**	**700**	**800**	**2,000**	**70**	**200**	**0.2**	**5**	**850**	**7**	**NS**	**NS**	**60**	**70**	**NS**	**NS**	**480**	**0.2**	**0.05**	**600**	**5**	**5**	**600**	**NS**	**75**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**0.6**	**4.4**	**10**
WI Groundwater PAL:		0.5	140	160	400	7	40	0.02	0.5	85	0.7	NS	NS	12	14	NS	NS	96	0.02	0.005	60	0.5	0.5	120	NS	15	NS	NS	NS	NS	NS	NS	NS	0.06	0.44	1
AECOM MW-19	1/10/2023	<0.5 U	<0.5 U	<0.5 U	0.33 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	0.84 JB	0.81 JB	1.65	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	8.5	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
AMEC_MW-14	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-15	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-16	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-16A	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-17	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12 DUP	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121	1/11/2023	**64**	58	0.24 J	120	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	200	51	**251**	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	8.5	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-15	1/11/2023	<5 U	46	<5 U	480	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<20 U	<10 U	1,500	320	**1820**	<50 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	46	<10 U	<10 U	<10 U	<10 U	<10 U	<30 U
MW-16	1/11/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	0.91 J	<1 U	0.91	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-17	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	0.79 JB	0.78 JB	1.57	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.71 J	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-19	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.57 J	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-200	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-204	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-209	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	0.73 JB	<1 U	0.73	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.72 J	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-209 DUP	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-213	1/9/2023	<0.5 U	51	0.33 J	140	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	400	140	**540**	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	17	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-213 DUP	1/9/2023	<0.5 U	53	0.27 J	140	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	370	130	**500**	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	17	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-217	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-217 DUP	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-218	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-219	1/11/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-226	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-228	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-235	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-236	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-31	1/11/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	1.3	<1 U	1.3	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-37	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	4	<2 U	4.1	<1 U	<1 U	<2 U	<5 U	<1 U	0.82 J	<1 U	<1 U	<1 U	0.83 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-48	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/11/2023	1.4	31	<1 U	330	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<4 U	<2 U	770	21	**791**	<10 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	17	<2 U	<2 U	<2 U	<2 U	<2 U	<6 U
MW-8	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	0.78 JB	<1 U	0.78	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-82	1/9/2023	<0.5 U	<0.5 U	<0.5 U	0.36 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	1 B	0.87 JB	1.87	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-9	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
MW-9 DUP	1/10/2023	<0.5 U	<0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<2 U	<5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<3 U
PZ-200	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-206	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-214	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

See page 3 for additional foonotes.

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

Table 1. January 2023 Groundwater Analytical Results - VOC

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

VOC, *continued*

Sample Location	Sample Date	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,3-Dichloropropene[3]	Dibromochloromethane	Dibromomethane	Freon 12	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	Methylene chloride (Dichloromethane, DCM)	Methyl-tert-butyl-ether	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
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
WI Groundwater ES:		**5**	**NS**	**400**	**6**	**30**	**70**	**NS**	**NS**	**0.4**	**60**	**NS**	**1,000**	**NS**	**NS**	**NS**	**5**	**60**	**NS**	**NS**	**100**	**NS**	**100**	**NS**	**5**	**100**	**5**	**NS**	**0.2**
WI Groundwater PAL:		0.5	NS	80	0.6	3	7	NS	NS	0.04	6	NS	200	NS	NS	NS	0.5	12	NS	NS	10	NS	10	NS	0.5	20	0.5	NS	0.02
AECOM MW-19	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	0.85	<1 U	<1 U
AMEC_MW-14	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-15	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-16	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-16A	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AMEC_MW-17	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12 DUP	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121	1/11/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	28	<5 U	<1 U	<1 U	37	65	5.5 B	<1 U	1.3 B	<1 U	<1 U	<0.5 U	<1 U	<1 U
MW-15	1/11/2023	<10 U	<10 U	<10 U	<20 U	<10 U	<10 U	<10 U	<10 U	<20 U	<10 U	<10 U	<30 U	<10 U	<10 U	37	<50 U	<10 U	<10 U	52	140	24	<10 U	7.9 J	<10 U	<10 U	<5 U	<10 U	<10 U
MW-16	1/11/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.36 J	<1 U	<1 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U
MW-17	1/10/2023	<1 U	<1 U	<1 U	0.38 J	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.7 J	<1 U	<1 U	<1 U	<1 U	<1 U	6.1	<1 U	<1 U
MW-19	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	4.8	<1 U	<1 U
MW-200	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-204	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-209	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	2	<1 U	<1 U
MW-209 DUP	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	1.6	<1 U	<1 U
MW-213	1/9/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	35	<5 U	<1 U	<1 U	49	63	13	<1 U	4.9 B	<1 U	<1 U	<0.5 U	<1 U	<1 U
MW-213 DUP	1/9/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	37	<5 U	<1 U	<1 U	51	62	14	<1 U	5.2 B	<1 U	<1 U	<0.5 U	<1 U	<1 U
MW-217	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	<0.5 U	<1 U	<1 U
MW-217 DUP	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	<0.5 U	<1 U	<1 U
MW-218	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-219	1/11/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	<0.5 U	<1 U	<1 U
MW-226	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-228	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-235	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-236	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	4.6	<1 U	<1 U
MW-31	1/11/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	<1 U	0.75 J	<1 U	<1 U	<1 U	<1 U	<1 U	1.6	<1 U	<1 U
MW-37	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	<1 U	11	<1 U	<1 U
MW-48	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	1/11/2023	<2 U	<2 U	<2 U	<4 U	<2 U	<2 U	<2 U	<2 U	<4 U	<2 U	<2 U	<6 U	<2 U	<2 U	60	<10 U	<2 U	12	88	35	13	<2 U	2.3	<2 U	<2 U	<1 U	<2 U	<2 U
MW-8	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 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	0.93 J	<1 U	1.4	<1 U	<1 U
MW-82	1/9/2023	<1 U	<1 U	<1 U	<2 U	<1 U	3.1	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	<5 U	<1 U	<1 U	0.63 J	0.9 J	<1 U	<1 U	<1 U	<1 U	1.9	0.56	<1 U	<1 U
MW-9	1/10/2023	<1 U	<1 U	<1 U	0.66 J	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	4.4 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	6.8	<1 U	<1 U
MW-9 DUP	1/10/2023	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<3 U	<1 U	<1 U	<1 U	4.7 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	7.1	<1 U	<1 U
PZ-200	1/11/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-206	1/9/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-214	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-226	1/10/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[O:CMD 2/15/23; C:MGP 2/16/23]

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)
B = analyte was detected in the associated method blank.
J = Estimated concentration
U = Concentration was not detected above the reported limit

Acronyms:
µg/L = micrograms per liter
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
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
VOC = Volatile Organic Compound
WDNR = Wisconsin Department of Natural Resources
WI = Wisconsin
WI DHS = Wisconsin Department of Health Services

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.

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.
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.
3. 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.

N

MW-226
PZ-226
MW-236
MW-235

STORM WATER LINE/ FORMER SHERMAN CREEK EXTENDS FARTHER TO THE EAST AND DISCHARGES TO THE MANITOWOC RIVER

Franklin St

AMEC MW-16A
AMEC MW-16
AMEC MW-17
PZ-224
MW-224
MW-223
AECOM MW-18
MW-220
MW-3
MW-221
MW-218
MW-5
MW-82
AMEC MW-15
MW-219
MW-6
MW-9
TMP-229B
TMP-232
MW-8
MW-7
TMP-230A
MW-12
PZ-214
TMP-231A
MW-213
STORM WATER LINE/ FORMER SHERMAN CREEK EXTENDS FARTHER WEST
MW-121
MW-31
AECOM MW-19
MW-15
MW-16
MW-17
MW-217
MW-234
MW-48
MW-19
MW-208
MW-37
MW-210
MW-25
MW-99
MW-233
MW-204
PZ-206
MW-67
MW-60
MW-209
MW-205
AMEC MW-14
PZ-200
MW-29
MW-201
MW-200
S 17th St
S 16th St
S 15th St
S 14th St
151
Marshall St
MW-228

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 2/6/2023 7:48:29 AM

JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-228026-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

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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2/6/2023 7:48:29 AM

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

Table of Contents

Job ID: 500-228026-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-228026-1

Comments
No additional comments.

Receipt
The samples were received on 1/13/2023 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 1.9º C and 3.1º C.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of tartget and non-target analytes: MW-121 (500-228026-19), MW-213 (500-228026-27), MW-213 DUP (500-228026-28), MW-5 (500-228026-46) and MW-15 (500-228026-49). Elevated reporting limits (RLs) are provided.

Method 8260B: The method blank for analytical batch 500-694064 contained some analytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-694064/7)

No additional analytical or quality issues were noted, other than those described above or 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-17 (500-228026-17)

Method 537 (modified): Results for samples MW-48 (500-228026-39) 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.

AMEC_MW-14 (500-228026-16)

Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-647722 and analytical batch 320-648490 recovered outside control limits for the following analytes: 4:2 FTS.

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-200 (500-228026-45)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: PZ-200 (500-228026-44). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Results for sample MW-9 (500-228026-40) 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. The percent recovery for the internal standard in the 10X analysis is 230.9% after the dilution factor was applied to the labeled internal standard area count. The project manager was contacted and gave permission to report.

Method 537 (modified): Results for sample MW-9 DUP (500-228026-41) was reported from the analysis of a diluted extract due to high

Job ID: 500-228026-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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. The percent recovery for the internal standard in the 10X analysis is 137.4% after the dilution factor was applied to the labeled internal standard area count.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-9 (500-228026-40). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside control limits: MW-9 (500-228026-40). The sample was re-analyzed and ISTD response was outside control limits. The project manager was contacted and gave permission to report the results.

Method 537 (modified): The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: MW-9 (500-228026-40). These analytes have been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range. The sample was diluted within the calibration range, both sets of data have been reported.

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-236 (500-228026-8)

Method 537 (modified): Results for samples AMEC_MW-16 (500-228026-11) 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 following sample has chromatographic interferences that could adversely impact the identification and quantitation of target analytes: MW-213 (500-228026-27) and MW-213 DUP (500-228026-28) These interferences could cause false positive and/or false negative results.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: MW-9 DUP (500-228026-41). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The sample was re-analyzed with concurring results.

Method 537 (modified): Results for samples MW-12 (500-228026-20) and MW-12 DUP (500-228026-21) 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 Isotope Dilution Analyte (IDA) recovery associated with the following samples are below the method recommended limit: MW-12 (500-228026-20) and MW-12 DUP (500-228026-21). 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. The samples had low IDA results in both 1x and 50x runs.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 320-647722.

Method: 3535_PFC_28D

Job ID: 500-228026-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Matrix: Aqueous

Method 3535: The following sample was foamy and brown in color prior to extraction: MW-226 (500-228026-10).

320-647722
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the sample being foamy, the initial volume used for the following sample deviated from the standard procedure: MW-226 (500-228026-10). A 10x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

320-647722
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 320-647723.

Method: 3535_PFC
Matrix: Aqueous

Method 3535: The following samples were dark brown in color and foamy prior to extraction: MW-12 (500-228026-20), MW-12 DUP (500-228026-21), MW-213 (500-228026-27) and MW-213 DUP (500-228026-28).

320-647723
Method: 3535_PFC
Matrix: Aqueous

Method 3535: Due to the samples being foamy, the initial volumes used for the following samples deviated from the standard procedure: MW-213 (500-228026-27) and MW-213 DUP (500-228026-28). A 10x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

320-647723
Method: 3535_PFC
Matrix: Aqueous

Method 3535: Due to the samples being foamy, the initial volumes used for the following samples deviated from the standard procedure: MW-12 (500-228026-20) and MW-12 DUP (500-228026-21). A 25x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

320-647723
Method: 3535_PFC
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-647723 were light yellow in color following extraction. MW-12 (500-228026-20) and MW-12 DUP (500-228026-21)

Job ID: 500-228026-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

320-647723
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 320-648235.

Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the samples being light brown in color and foamy, the initial volume used for the following sample deviated from the standard procedure. The foam stabilized within 5 minutes. MW-9 (500-228026-40) and MW-9 DUP (500-228026-41). A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

preparation batch 320-648235
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: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-15 — Lab Sample ID: 500-228026-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	18		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	9.5		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	350		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	25		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.9	0.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-209 — Lab Sample ID: 500-228026-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	0.72	J	1.0	0.36	ug/L	1		8260B	Total/NA
Trichloroethene	2.0		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	7.4		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.1		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	72		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.62	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.39	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.36	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.6		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.21	J	1.9	0.18	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: EB-02 — Lab Sample ID: 500-228026-5

No Detections.

Client Sample ID: FB-02 — Lab Sample ID: 500-228026-6

No Detections.

Client Sample ID: MW-235 — Lab Sample ID: 500-228026-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.0		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.9		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.0		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.2		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	77		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-236 — Lab Sample ID: 500-228026-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.5		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.8		1.9	0.54	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-236 (Continued) — Lab Sample ID: 500-228026-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	6.6		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	95		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)	1.1	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J I	1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-226 — Lab Sample ID: 500-228026-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.1	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.3		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.42	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-226 — Lab Sample ID: 500-228026-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	8.3	J	20	4.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	13	J	20	5.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13	J	20	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	260		20	8.5	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-16 — Lab Sample ID: 500-228026-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.9		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	16		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	45		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.77	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.7	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	650		9.5	4.0	ng/L	5		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-16A — Lab Sample ID: 500-228026-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.73	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.5		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.56	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-04 — Lab Sample ID: 500-228026-14

No Detections.

Client Sample ID: EB-04 — Lab Sample ID: 500-228026-15

No Detections.

Client Sample ID: AMEC_MW-14 — Lab Sample ID: 500-228026-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	19		4.8	2.3	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMEC_MW-14 (Continued) — Lab Sample ID: 500-228026-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	23		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	29		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	180		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.33	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.6		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.38	J I	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.3	I	1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: AMEC_MW-17 — Lab Sample ID: 500-228026-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.4		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.2		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	57		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.37	J	1.9	0.25	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)	1.3	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3	I	1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-219 — Lab Sample ID: 500-228026-18

No Detections.

Client Sample ID: MW-121 — Lab Sample ID: 500-228026-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	64		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	58		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	28		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	65		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	37		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	8.5		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	5.5	B	1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.3	B	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.24	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	51	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	200	B	10	3.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 500-228026-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	280		50	6.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8000		50	21	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	88000		6300	3000	ng/L	50		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-228026-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	7100		50	21	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	150000		6300	3000	ng/L	50		537 (modified)	Total/NA

Client Sample ID: FB-06
Lab Sample ID: 500-228026-22

No Detections.

Client Sample ID: EB-06
Lab Sample ID: 500-228026-23

No Detections.

Client Sample ID: MW-201
Lab Sample ID: 500-228026-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	32		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	50		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	59		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	220		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.37	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.4		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-204
Lab Sample ID: 500-228026-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.6		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.3		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.5		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.77	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.38	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.59	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	35		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.30	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	27		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: PZ-206
Lab Sample ID: 500-228026-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.71	J	1.9	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.82	J	1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.51	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		1.9	0.83	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-213
Lab Sample ID: 500-228026-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	51		0.50	0.18	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-213 (Continued) — Lab Sample ID: 500-228026-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	35		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	63		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	49		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	17		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	13	B	1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	4.9	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
Xylenes, Total	140		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	400	B	10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene - DL	140	B	10	2.5	ug/L	10		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	41	J CI	50	24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	12	J	20	5.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	45		20	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	660		20	8.5	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-213 DUP — Lab Sample ID: 500-228026-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	53		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	37		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	62		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	51		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	17		1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	14	B	1.0	0.40	ug/L	1		8260B	Total/NA
tert-Butylbenzene	5.2	B	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.27	J	0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	140		1.0	0.22	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	370	B	10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene - DL	130	B	10	2.5	ug/L	10		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	37	J CI	50	24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.6	J	20	5.8	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	40		20	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	610		20	8.5	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.5	J	20	5.4	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-82 — Lab Sample ID: 500-228026-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0	0.41	ug/L	1		8260B	Total/NA
Naphthalene	0.90	J	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.63	J	1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.56		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.0	B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.87	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.36	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: FB-01 — Lab Sample ID: 500-228026-30

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-01 — Lab Sample ID: 500-228026-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.67	J	1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	0.78	J	1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.62	J	1.0	0.41	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.95	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.83	J B	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: AECOM MW-19 — Lab Sample ID: 500-228026-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.85		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.84	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	0.33	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 500-228026-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.38	J	2.0	0.37	ug/L	1		8260B	Total/NA
Naphthalene	0.70	J	1.0	0.34	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.71	J	1.0	0.36	ug/L	1		8260B	Total/NA
Trichloroethene	6.1		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.79	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: PZ-214 — Lab Sample ID: 500-228026-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2	J	4.9	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	51		2.0	0.83	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 500-228026-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.93	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	1.4		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.78	J B	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 500-228026-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.6		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-37 — Lab Sample ID: 500-228026-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.82	J	1.0	0.33	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.83	J	1.0	0.40	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	4.0		1.0	0.46	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	4.1		1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	11		0.50	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19 — Lab Sample ID: 500-228026-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	0.57	J	1.0	0.46	ug/L	1		8260B	Total/NA
Trichloroethene	4.8		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-48 — Lab Sample ID: 500-228026-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.9		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		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)	42		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.9	0.25	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)	1.4	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.2		1.9	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	1100		19	7.9	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 500-228026-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.66	J	2.0	0.37	ug/L	1		8260B	Total/NA
Methylene Chloride	4.4	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	6.8		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	1600		25	12	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	430		10	2.5	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	160		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	2900		100	43	ng/L	10		537 (modified)	Total/NA

Client Sample ID: MW-9 DUP — Lab Sample ID: 500-228026-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.7	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	7.1		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	780		250	120	ng/L	10		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	470		100	25	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	140		100	13	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2700		100	43	ng/L	10		537 (modified)	Total/NA

Client Sample ID: EB-03 — Lab Sample ID: 500-228026-42

No Detections.

Client Sample ID: FB-03 — Lab Sample ID: 500-228026-43

No Detections.

Client Sample ID: PZ-200 — Lab Sample ID: 500-228026-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.5		1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.26	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: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200 — Lab Sample ID: 500-228026-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.4		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.2		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.2		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.3		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.32	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.34	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4	I	1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 500-228026-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0	0.29	ug/L	2		8260B	Total/NA
Ethylbenzene	31		1.0	0.37	ug/L	2		8260B	Total/NA
Isopropylbenzene	60		2.0	0.77	ug/L	2		8260B	Total/NA
Naphthalene	35		2.0	0.67	ug/L	2		8260B	Total/NA
n-Butylbenzene	12		2.0	0.78	ug/L	2		8260B	Total/NA
N-Propylbenzene	88		2.0	0.83	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	17		2.0	0.72	ug/L	2		8260B	Total/NA
sec-Butylbenzene	13		2.0	0.80	ug/L	2		8260B	Total/NA
tert-Butylbenzene	2.3		2.0	0.80	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	21		2.0	0.51	ug/L	2		8260B	Total/NA
Xylenes, Total	330		2.0	0.44	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene - DL	770		20	7.2	ug/L	20		8260B	Total/NA

Client Sample ID: MW-31 — Lab Sample ID: 500-228026-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.75	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	1.6		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.3		1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 500-228026-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.36	J	1.0	0.34	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.91	J	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 500-228026-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	46		5.0	1.8	ug/L	10		8260B	Total/NA
Isopropylbenzene	37		10	3.9	ug/L	10		8260B	Total/NA
Naphthalene	140		10	3.4	ug/L	10		8260B	Total/NA
N-Propylbenzene	52		10	4.1	ug/L	10		8260B	Total/NA
p-Isopropyltoluene	46		10	3.6	ug/L	10		8260B	Total/NA
sec-Butylbenzene	24		10	4.0	ug/L	10		8260B	Total/NA
tert-Butylbenzene	7.9	J	10	4.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	1500		10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	320		10	2.5	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15 (Continued) — Lab Sample ID: 500-228026-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	480		10	2.2	ug/L	10		8260B	Total/NA

Client Sample ID: EB-05 — Lab Sample ID: 500-228026-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.41	J	1.0	0.34	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.46	J	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: FB-05 — Lab Sample ID: 500-228026-51

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-228026-52

No Detections.

Client Sample ID: MW-209 DUP — Lab Sample ID: 500-228026-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.6		0.50	0.16	ug/L	1		8260B	Total/NA
Perfluorobutanoic acid (PFBA)	8.1		4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.8		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.4		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	63		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.55	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.35	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.28	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.8		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.20	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.9	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-228026-2	AMEC_MW-15	Water	01/09/23 14:53	01/13/23 09:30
500-228026-4	MW-209	Water	01/10/23 08:17	01/13/23 09:30
500-228026-5	EB-02	Water	01/09/23 16:05	01/13/23 09:30
500-228026-6	FB-02	Water	01/09/23 16:10	01/13/23 09:30
500-228026-7	MW-235	Water	01/10/23 09:27	01/13/23 09:30
500-228026-8	MW-236	Water	01/10/23 10:10	01/13/23 09:30
500-228026-9	PZ-226	Water	01/10/23 11:21	01/13/23 09:30
500-228026-10	MW-226	Water	01/10/23 12:22	01/13/23 09:30
500-228026-11	AMEC_MW-16	Water	01/10/23 14:21	01/13/23 09:30
500-228026-12	AMEC_MW-16A	Water	01/10/23 14:55	01/13/23 09:30
500-228026-14	FB-04	Water	01/10/23 15:25	01/13/23 09:30
500-228026-15	EB-04	Water	01/10/23 16:00	01/13/23 09:30
500-228026-16	AMEC_MW-14	Water	01/11/23 08:00	01/13/23 09:30
500-228026-17	AMEC_MW-17	Water	01/11/23 08:40	01/13/23 09:30
500-228026-18	MW-219	Water	01/11/23 09:48	01/13/23 09:30
500-228026-19	MW-121	Water	01/11/23 10:40	01/13/23 09:30
500-228026-20	MW-12	Water	01/11/23 11:46	01/13/23 09:30
500-228026-21	MW-12 DUP	Water	01/11/23 11:48	01/13/23 09:30
500-228026-22	FB-06	Water	01/11/23 12:09	01/13/23 09:30
500-228026-23	EB-06	Water	01/11/23 12:12	01/13/23 09:30
500-228026-24	MW-201	Water	01/09/23 13:01	01/13/23 09:30
500-228026-25	MW-204	Water	01/09/23 13:50	01/13/23 09:30
500-228026-26	PZ-206	Water	01/09/23 14:35	01/13/23 09:30
500-228026-27	MW-213	Water	01/09/23 15:20	01/13/23 09:30
500-228026-28	MW-213 DUP	Water	01/09/23 15:20	01/13/23 09:30
500-228026-29	MW-82	Water	01/09/23 16:15	01/13/23 09:30
500-228026-30	FB-01	Water	01/09/23 16:25	01/13/23 09:30
500-228026-31	EB-01	Water	01/09/23 16:30	01/13/23 09:30
500-228026-32	AECOM MW-19	Water	01/10/23 07:55	01/13/23 09:30
500-228026-33	MW-17	Water	01/10/23 08:35	01/13/23 09:30
500-228026-34	PZ-214	Water	01/10/23 09:25	01/13/23 09:30
500-228026-35	MW-8	Water	01/10/23 10:25	01/13/23 09:30
500-228026-36	MW-3	Water	01/10/23 11:30	01/13/23 09:30
500-228026-37	MW-37	Water	01/10/23 12:55	01/13/23 09:30
500-228026-38	MW-19	Water	01/10/23 13:40	01/13/23 09:30
500-228026-39	MW-48	Water	01/10/23 14:45	01/13/23 09:30
500-228026-40	MW-9	Water	01/10/23 15:40	01/13/23 09:30
500-228026-41	MW-9 DUP	Water	01/10/23 15:40	01/13/23 09:30
500-228026-42	EB-03	Water	01/10/23 16:10	01/13/23 09:30
500-228026-43	FB-03	Water	01/10/23 16:15	01/13/23 09:30
500-228026-44	PZ-200	Water	01/11/23 08:00	01/13/23 09:30
500-228026-45	MW-200	Water	01/11/23 08:40	01/13/23 09:30
500-228026-46	MW-5	Water	01/11/23 08:55	01/13/23 09:30
500-228026-47	MW-31	Water	01/11/23 09:40	01/13/23 09:30
500-228026-48	MW-16	Water	01/11/23 10:20	01/13/23 09:30
500-228026-49	MW-15	Water	01/11/23 11:00	01/13/23 09:30
500-228026-50	EB-05	Water	01/11/23 11:30	01/13/23 09:30
500-228026-51	FB-05	Water	01/11/23 11:35	01/13/23 09:30
500-228026-52	TRIP BLANK	Water	01/11/23 00:00	01/13/23 09:30
500-228026-53	MW-209 DUP	Water	01/10/23 08:20	01/13/23 09:30

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-15
Lab Sample ID: 500-228026-2
Date Collected: 01/09/23 14:53
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**18**		4.6	2.2	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluoropentanoic acid (PFPeA)	**9.5**		1.9	0.46	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorohexanoic acid (PFHxA)	**8.6**		1.9	0.54	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluoroheptanoic acid (PFHpA)	**12**		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorooctanoic acid (PFOA)	**350**		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorobutanesulfonic acid (PFBS)	**25**		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorohexanesulfonic acid (PFHxS)	**3.5**		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/18/23 06:12	01/21/23 04:21	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/18/23 06:12	01/21/23 04:21	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 04:21	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:12	01/21/23 04:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		01/18/23 06:12	01/21/23 04:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		01/18/23 06:12	01/21/23 04:21	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:12	01/21/23 04:21	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 04:21	1
4:2 FTS	<0.22	*1	1.9	0.22	ng/L		01/18/23 06:12	01/21/23 04:21	1
6:2 FTS	<2.3		4.6	2.3	ng/L		01/18/23 06:12	01/21/23 04:21	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:12	01/21/23 04:21	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:12	01/21/23 04:21	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:12	01/21/23 04:21	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:12	01/21/23 04:21	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C5 PFPeA	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C2 PFHxA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C4 PFHpA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C4 PFOA	*98*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C5 PFNA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C2 PFDA	*97*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C2 PFUnA	*98*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C2 PFDoA	*82*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*
13C2 PFTeDA	*79*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:21*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-15
Lab Sample ID: 500-228026-2
Date Collected: 01/09/23 14:53
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	109		25 - 150	01/18/23 06:12	01/21/23 04:21	1
18O2 PFHxS	104		25 - 150	01/18/23 06:12	01/21/23 04:21	1
13C4 PFOS	90		25 - 150	01/18/23 06:12	01/21/23 04:21	1
13C8 FOSA	105		10 - 150	01/18/23 06:12	01/21/23 04:21	1
d3-NMeFOSAA	95		25 - 150	01/18/23 06:12	01/21/23 04:21	1
d5-NEtFOSAA	95		25 - 150	01/18/23 06:12	01/21/23 04:21	1
d-N-MeFOSA-M	77		10 - 150	01/18/23 06:12	01/21/23 04:21	1
d-N-EtFOSA-M	81		10 - 150	01/18/23 06:12	01/21/23 04:21	1
d7-N-MeFOSE-M	81		10 - 150	01/18/23 06:12	01/21/23 04:21	1
d9-N-EtFOSE-M	81		10 - 150	01/18/23 06:12	01/21/23 04:21	1
M2-4:2 FTS	92		25 - 150	01/18/23 06:12	01/21/23 04:21	1
M2-6:2 FTS	71		25 - 150	01/18/23 06:12	01/21/23 04:21	1
M2-8:2 FTS	74		25 - 150	01/18/23 06:12	01/21/23 04:21	1
13C3 HFPO-DA	118		25 - 150	01/18/23 06:12	01/21/23 04:21	1
13C2 10:2 FTS	67		25 - 150	01/18/23 06:12	01/21/23 04:21	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-228026-4
Date Collected: 01/10/23 08:17
Matrix: Water
Date Received: 01/13/23 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			01/16/23 11:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 11:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 11:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 11:56	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 11:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 11:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 11:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 11:56	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 11:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 11:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 11:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 11:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 11:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 11:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 11:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 11:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 11:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 11:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 11:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 11:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 11:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 11:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 11:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 11:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 11:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 11:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 11:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 11:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 11:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 11:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 11:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 11:56	1
p-Isopropyltoluene	**0.72**	**J**	1.0	0.36	ug/L			01/16/23 11:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 11:56	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 11:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 11:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 11:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 11:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 11:56	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 11:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 11:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 11:56	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-228026-4
Date Collected: 01/10/23 08:17
Matrix: Water
Date Received: 01/13/23 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			01/16/23 11:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 11:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 11:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 11:56	1
Trichloroethene	**2.0**		0.50	0.16	ug/L			01/16/23 11:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 11:56	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 11:56	1
1,2,4-Trimethylbenzene	**0.73**	**J B**	1.0	0.36	ug/L			01/16/23 11:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/16/23 11:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 11:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*01/16/23 11:56*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*01/16/23 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*01/16/23 11:56*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*01/16/23 11:56*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.4**		4.7	2.2	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluoropentanoic acid (PFPeA)	**3.6**		1.9	0.46	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorohexanoic acid (PFHxA)	**4.1**		1.9	0.54	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluoroheptanoic acid (PFHpA)	**5.1**		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorooctanoic acid (PFOA)	**72**		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorononanoic acid (PFNA)	**0.62**	**J**	1.9	0.25	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorodecanoic acid (PFDA)	**0.39**	**J**	1.9	0.29	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorobutanesulfonic acid (PFBS)	**2.2**		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluoropentanesulfonic acid (PFPeS)	**0.36**	**J**	1.9	0.28	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorohexanesulfonic acid (PFHxS)	**8.6**		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.21**	**J**	1.9	0.18	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.9	0.50	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/18/23 06:12	01/21/23 04:42	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/18/23 06:12	01/21/23 04:42	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 04:42	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:12	01/21/23 04:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:12	01/21/23 04:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:12	01/21/23 04:42	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209
Lab Sample ID: 500-228026-4
Date Collected: 01/10/23 08:17
Matrix: Water
Date Received: 01/13/23 09:30

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		01/18/23 06:12	01/21/23 04:42	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 04:42	1
4:2 FTS	<0.22	*1	1.9	0.22	ng/L		01/18/23 06:12	01/21/23 04:42	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 04:42	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:12	01/21/23 04:42	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:12	01/21/23 04:42	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:12	01/21/23 04:42	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:12	01/21/23 04:42	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C5 PFPeA	*113*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 PFHxA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C4 PFHpA	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C5 PFNA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 PFDA	*94*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 PFUnA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 PFDoA	*81*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 PFTeDA	*85*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C3 PFBS	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
18O2 PFHxS	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C4 PFOS	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C8 FOSA	*114*		*10 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d3-NMeFOSAA	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d5-NEtFOSAA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d-N-MeFOSA-M	*83*		*10 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d-N-EtFOSA-M	*91*		*10 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d7-N-MeFOSE-M	*87*		*10 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
d9-N-EtFOSE-M	*83*		*10 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
M2-4:2 FTS	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
M2-6:2 FTS	*75*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
M2-8:2 FTS	*72*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C3 HFPO-DA	*120*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*
13C2 10:2 FTS	*64*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:42*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-02
Lab Sample ID: 500-228026-5
Date Collected: 01/09/23 16:05
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorooctanoic acid (PFOA)	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		01/18/23 06:12	01/21/23 04:52	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		01/18/23 06:12	01/21/23 04:52	1
NEtFOSA	<0.85		1.9	0.85	ng/L		01/18/23 06:12	01/21/23 04:52	1
NMeFOSA	<0.42		1.9	0.42	ng/L		01/18/23 06:12	01/21/23 04:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/18/23 06:12	01/21/23 04:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/18/23 06:12	01/21/23 04:52	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/18/23 06:12	01/21/23 04:52	1
NEtFOSE	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 04:52	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:52	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/18/23 06:12	01/21/23 04:52	1
8:2 FTS	<0.45		1.9	0.45	ng/L		01/18/23 06:12	01/21/23 04:52	1
DONA	<0.39		1.9	0.39	ng/L		01/18/23 06:12	01/21/23 04:52	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/18/23 06:12	01/21/23 04:52	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:52	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*110*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C5 PFPeA	*116*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C2 PFHxA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C4 PFOA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C5 PFNA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C2 PFDA	*110*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C2 PFUnA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C2 PFDoA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C2 PFTeDA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*
13C3 PFBS	*116*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:52*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-02
Lab Sample ID: 500-228026-5
Date Collected: 01/09/23 16:05
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	117		25 - 150	01/18/23 06:12	01/21/23 04:52	1
13C4 PFOS	107		25 - 150	01/18/23 06:12	01/21/23 04:52	1
13C8 FOSA	113		10 - 150	01/18/23 06:12	01/21/23 04:52	1
d3-NMeFOSAA	123		25 - 150	01/18/23 06:12	01/21/23 04:52	1
d5-NEtFOSAA	117		25 - 150	01/18/23 06:12	01/21/23 04:52	1
d-N-MeFOSA-M	95		10 - 150	01/18/23 06:12	01/21/23 04:52	1
d-N-EtFOSA-M	104		10 - 150	01/18/23 06:12	01/21/23 04:52	1
d7-N-MeFOSE-M	102		10 - 150	01/18/23 06:12	01/21/23 04:52	1
d9-N-EtFOSE-M	106		10 - 150	01/18/23 06:12	01/21/23 04:52	1
M2-4:2 FTS	100		25 - 150	01/18/23 06:12	01/21/23 04:52	1
M2-6:2 FTS	82		25 - 150	01/18/23 06:12	01/21/23 04:52	1
M2-8:2 FTS	86		25 - 150	01/18/23 06:12	01/21/23 04:52	1
13C3 HFPO-DA	118		25 - 150	01/18/23 06:12	01/21/23 04:52	1
13C2 10:2 FTS	80		25 - 150	01/18/23 06:12	01/21/23 04:52	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-02
Lab Sample ID: 500-228026-6
Date Collected: 01/09/23 16:10
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorooctanoic acid (PFOA)	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		01/18/23 06:12	01/21/23 05:03	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		01/18/23 06:12	01/21/23 05:03	1
NEtFOSA	<0.84		1.9	0.84	ng/L		01/18/23 06:12	01/21/23 05:03	1
NMeFOSA	<0.42		1.9	0.42	ng/L		01/18/23 06:12	01/21/23 05:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/18/23 06:12	01/21/23 05:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/18/23 06:12	01/21/23 05:03	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/18/23 06:12	01/21/23 05:03	1
NEtFOSE	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 05:03	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:03	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/18/23 06:12	01/21/23 05:03	1
8:2 FTS	<0.45		1.9	0.45	ng/L		01/18/23 06:12	01/21/23 05:03	1
DONA	<0.39		1.9	0.39	ng/L		01/18/23 06:12	01/21/23 05:03	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/18/23 06:12	01/21/23 05:03	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:03	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C5 PFPeA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C2 PFHxA	*113*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C4 PFHpA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C4 PFOA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C5 PFNA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C2 PFDA	*91*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C2 PFUnA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C2 PFDoA	*80*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C2 PFTeDA	*82*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*
13C3 PFBS	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:03*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-02
Lab Sample ID: 500-228026-6
Date Collected: 01/09/23 16:10
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	111		25 - 150	01/18/23 06:12	01/21/23 05:03	1
13C4 PFOS	98		25 - 150	01/18/23 06:12	01/21/23 05:03	1
13C8 FOSA	104		10 - 150	01/18/23 06:12	01/21/23 05:03	1
d3-NMeFOSAA	89		25 - 150	01/18/23 06:12	01/21/23 05:03	1
d5-NEtFOSAA	89		25 - 150	01/18/23 06:12	01/21/23 05:03	1
d-N-MeFOSA-M	80		10 - 150	01/18/23 06:12	01/21/23 05:03	1
d-N-EtFOSA-M	89		10 - 150	01/18/23 06:12	01/21/23 05:03	1
d7-N-MeFOSE-M	89		10 - 150	01/18/23 06:12	01/21/23 05:03	1
d9-N-EtFOSE-M	95		10 - 150	01/18/23 06:12	01/21/23 05:03	1
M2-4:2 FTS	86		25 - 150	01/18/23 06:12	01/21/23 05:03	1
M2-6:2 FTS	76		25 - 150	01/18/23 06:12	01/21/23 05:03	1
M2-8:2 FTS	74		25 - 150	01/18/23 06:12	01/21/23 05:03	1
13C3 HFPO-DA	113		25 - 150	01/18/23 06:12	01/21/23 05:03	1
13C2 10:2 FTS	59		25 - 150	01/18/23 06:12	01/21/23 05:03	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-235
Lab Sample ID: 500-228026-7
Date Collected: 01/10/23 09:27
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.0**		4.8	2.3	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluoropentanoic acid (PFPeA)	**1.9**		1.9	0.47	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorohexanoic acid (PFHxA)	**4.0**		1.9	0.55	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluoroheptanoic acid (PFHpA)	**4.2**		1.9	0.24	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorooctanoic acid (PFOA)	**77**		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorohexanesulfonic acid (PFHxS)	**1.2**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/18/23 06:12	01/21/23 05:13	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		01/18/23 06:12	01/21/23 05:13	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 05:13	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:12	01/21/23 05:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/18/23 06:12	01/21/23 05:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:12	01/21/23 05:13	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:12	01/21/23 05:13	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 05:13	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:13	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:12	01/21/23 05:13	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:12	01/21/23 05:13	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:12	01/21/23 05:13	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:12	01/21/23 05:13	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:13	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C5 PFPeA	*120*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C2 PFHxA	*128*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C4 PFHpA	*111*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C4 PFOA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C5 PFNA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C2 PFDA	*110*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C2 PFUnA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C2 PFDoA	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:13*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-235
Lab Sample ID: 500-228026-7
Date Collected: 01/10/23 09:27
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	130		25 - 150	01/18/23 06:12	01/21/23 05:13	1
18O2 PFHxS	114		25 - 150	01/18/23 06:12	01/21/23 05:13	1
13C4 PFOS	104		25 - 150	01/18/23 06:12	01/21/23 05:13	1
13C8 FOSA	126		10 - 150	01/18/23 06:12	01/21/23 05:13	1
d3-NMeFOSAA	102		25 - 150	01/18/23 06:12	01/21/23 05:13	1
d5-NEtFOSAA	113		25 - 150	01/18/23 06:12	01/21/23 05:13	1
d-N-MeFOSA-M	89		10 - 150	01/18/23 06:12	01/21/23 05:13	1
d-N-EtFOSA-M	97		10 - 150	01/18/23 06:12	01/21/23 05:13	1
d7-N-MeFOSE-M	94		10 - 150	01/18/23 06:12	01/21/23 05:13	1
d9-N-EtFOSE-M	94		10 - 150	01/18/23 06:12	01/21/23 05:13	1
M2-4:2 FTS	96		25 - 150	01/18/23 06:12	01/21/23 05:13	1
M2-6:2 FTS	76		25 - 150	01/18/23 06:12	01/21/23 05:13	1
M2-8:2 FTS	81		25 - 150	01/18/23 06:12	01/21/23 05:13	1
13C3 HFPO-DA	132		25 - 150	01/18/23 06:12	01/21/23 05:13	1
13C2 10:2 FTS	68		25 - 150	01/18/23 06:12	01/21/23 05:13	1

Client Sample ID: MW-236
Lab Sample ID: 500-228026-8

Date Collected: 01/10/23 10:10
Matrix: Water

Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**11**		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluoropentanoic acid (PFPeA)	**3.5**		1.9	0.46	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorohexanoic acid (PFHxA)	**4.8**		1.9	0.54	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluoroheptanoic acid (PFHpA)	**6.6**		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorooctanoic acid (PFOA)	**95**		1.9	0.80	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorobutanesulfonic acid (PFBS)	**2.2**		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorohexanesulfonic acid (PFHxS)	**1.1**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorooctanesulfonic acid (PFOS)	**1.7**	**J I**	1.9	0.51	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		01/18/23 06:12	01/21/23 05:44	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/18/23 06:12	01/21/23 05:44	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/18/23 06:12	01/21/23 05:44	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:12	01/21/23 05:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:12	01/21/23 05:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:12	01/21/23 05:44	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:12	01/21/23 05:44	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/18/23 06:12	01/21/23 05:44	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:44	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 05:44	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:12	01/21/23 05:44	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:12	01/21/23 05:44	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:12	01/21/23 05:44	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:44	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C2 PFHxA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C4 PFHpA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C4 PFOA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C5 PFNA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C2 PFDA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C2 PFUnA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*
13C2 PFDoA	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:44*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-236
Lab Sample ID: 500-228026-8
Date Collected: 01/10/23 10:10
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89		25 - 150	01/18/23 06:12	01/21/23 05:44	1
13C3 PFBS	134		25 - 150	01/18/23 06:12	01/21/23 05:44	1
18O2 PFHxS	110		25 - 150	01/18/23 06:12	01/21/23 05:44	1
13C4 PFOS	102		25 - 150	01/18/23 06:12	01/21/23 05:44	1
13C8 FOSA	114		10 - 150	01/18/23 06:12	01/21/23 05:44	1
d3-NMeFOSAA	105		25 - 150	01/18/23 06:12	01/21/23 05:44	1
d5-NEtFOSAA	108		25 - 150	01/18/23 06:12	01/21/23 05:44	1
d-N-MeFOSA-M	87		10 - 150	01/18/23 06:12	01/21/23 05:44	1
d-N-EtFOSA-M	93		10 - 150	01/18/23 06:12	01/21/23 05:44	1
d7-N-MeFOSE-M	88		10 - 150	01/18/23 06:12	01/21/23 05:44	1
d9-N-EtFOSE-M	85		10 - 150	01/18/23 06:12	01/21/23 05:44	1
M2-4:2 FTS	109		25 - 150	01/18/23 06:12	01/21/23 05:44	1
M2-6:2 FTS	80		25 - 150	01/18/23 06:12	01/21/23 05:44	1
M2-8:2 FTS	81		25 - 150	01/18/23 06:12	01/21/23 05:44	1
13C3 HFPO-DA	126		25 - 150	01/18/23 06:12	01/21/23 05:44	1
13C2 10:2 FTS	71		25 - 150	01/18/23 06:12	01/21/23 05:44	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226
Lab Sample ID: 500-228026-9
Date Collected: 01/10/23 11:21
Matrix: Water
Date Received: 01/13/23 09:30

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		01/18/23 06:12	01/21/23 05:54	1
Perfluoropentanoic acid (PFPeA)	**1.1**	**J**	1.9	0.46	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorohexanoic acid (PFHxA)	**1.5**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluoroheptanoic acid (PFHpA)	**1.1**	**J**	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorooctanoic acid (PFOA)	**3.3**		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorononanoic acid (PFNA)	**0.42**	**J**	1.9	0.25	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/18/23 06:12	01/21/23 05:54	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/18/23 06:12	01/21/23 05:54	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 05:54	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:12	01/21/23 05:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:12	01/21/23 05:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:12	01/21/23 05:54	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:12	01/21/23 05:54	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:12	01/21/23 05:54	1
4:2 FTS	<0.22	*1	1.9	0.22	ng/L		01/18/23 06:12	01/21/23 05:54	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 05:54	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:12	01/21/23 05:54	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:12	01/21/23 05:54	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:12	01/21/23 05:54	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:12	01/21/23 05:54	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 05:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C5 PFPeA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C2 PFHxA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C4 PFHpA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C4 PFOA	*97*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C5 PFNA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C2 PFDA	*99*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C2 PFUnA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C2 PFDoA	*86*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C2 PFTeDA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*
13C3 PFBS	*118*		*25 - 150*	*01/18/23 06:12*	*01/21/23 05:54*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226
Lab Sample ID: 500-228026-9
Date Collected: 01/10/23 11:21
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	113		25 - 150	01/18/23 06:12	01/21/23 05:54	1
13C4 PFOS	103		25 - 150	01/18/23 06:12	01/21/23 05:54	1
13C8 FOSA	112		10 - 150	01/18/23 06:12	01/21/23 05:54	1
d3-NMeFOSAA	100		25 - 150	01/18/23 06:12	01/21/23 05:54	1
d5-NEtFOSAA	106		25 - 150	01/18/23 06:12	01/21/23 05:54	1
d-N-MeFOSA-M	88		10 - 150	01/18/23 06:12	01/21/23 05:54	1
d-N-EtFOSA-M	95		10 - 150	01/18/23 06:12	01/21/23 05:54	1
d7-N-MeFOSE-M	87		10 - 150	01/18/23 06:12	01/21/23 05:54	1
d9-N-EtFOSE-M	89		10 - 150	01/18/23 06:12	01/21/23 05:54	1
M2-4:2 FTS	105		25 - 150	01/18/23 06:12	01/21/23 05:54	1
M2-6:2 FTS	67		25 - 150	01/18/23 06:12	01/21/23 05:54	1
M2-8:2 FTS	79		25 - 150	01/18/23 06:12	01/21/23 05:54	1
13C3 HFPO-DA	119		25 - 150	01/18/23 06:12	01/21/23 05:54	1
13C2 10:2 FTS	61		25 - 150	01/18/23 06:12	01/21/23 05:54	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226
Lab Sample ID: 500-228026-10
Date Collected: 01/10/23 12:22
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<24		50	24	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluoropentanoic acid (PFPeA)	**8.3**	**J**	20	4.9	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorohexanoic acid (PFHxA)	**13**	**J**	20	5.8	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluoroheptanoic acid (PFHpA)	**13**	**J**	20	2.5	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorooctanoic acid (PFOA)	**260**		20	8.5	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorononanoic acid (PFNA)	<2.7		20	2.7	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorodecanoic acid (PFDA)	<3.1		20	3.1	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluoroundecanoic acid (PFUnA)	<11		20	11	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorododecanoic acid (PFDoA)	<5.5		20	5.5	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorotridecanoic acid (PFTriA)	<13		20	13	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorotetradecanoic acid (PFTeA)	<7.3		20	7.3	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		20	2.0	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluoropentanesulfonic acid (PFPeS)	<3.0		20	3.0	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorohexanesulfonic acid (PFHxS)	<5.7		20	5.7	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		20	1.9	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorooctanesulfonic acid (PFOS)	<5.4		20	5.4	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorononanesulfonic acid (PFNS)	<3.7		20	3.7	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorodecanesulfonic acid (PFDS)	<3.2		20	3.2	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorododecanesulfonic acid (PFDoS)	<9.7		20	9.7	ng/L		01/18/23 06:12	01/21/23 06:45	1
Perfluorooctanesulfonamide (FOSA)	<9.8		20	9.8	ng/L		01/18/23 06:12	01/21/23 06:45	1
NEtFOSA	<8.7		20	8.7	ng/L		01/18/23 06:12	01/21/23 06:45	1
NMeFOSA	<4.3		20	4.3	ng/L		01/18/23 06:12	01/21/23 06:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<12		50	12	ng/L		01/18/23 06:12	01/21/23 06:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<13		50	13	ng/L		01/18/23 06:12	01/21/23 06:45	1
NMeFOSE	<14		40	14	ng/L		01/18/23 06:12	01/21/23 06:45	1
NEtFOSE	<8.5		20	8.5	ng/L		01/18/23 06:12	01/21/23 06:45	1
4:2 FTS	<2.4	*1	20	2.4	ng/L		01/18/23 06:12	01/21/23 06:45	1
6:2 FTS	<25		50	25	ng/L		01/18/23 06:12	01/21/23 06:45	1
8:2 FTS	<4.6		20	4.6	ng/L		01/18/23 06:12	01/21/23 06:45	1
DONA	<4.0		20	4.0	ng/L		01/18/23 06:12	01/21/23 06:45	1
HFPO-DA (GenX)	<15		40	15	ng/L		01/18/23 06:12	01/21/23 06:45	1
F-53B Major	<2.4		20	2.4	ng/L		01/18/23 06:12	01/21/23 06:45	1
F-53B Minor	<3.2		20	3.2	ng/L		01/18/23 06:12	01/21/23 06:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C5 PFPeA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C2 PFHxA	*111*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C4 PFHpA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C5 PFNA	*107*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C2 PFDA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C2 PFUnA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C2 PFDoA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C2 PFTeDA	*99*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*
13C3 PFBS	*126*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:45*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-226
Lab Sample ID: 500-228026-10
Date Collected: 01/10/23 12:22
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	120		25 - 150	01/18/23 06:12	01/21/23 06:45	1
13C4 PFOS	112		25 - 150	01/18/23 06:12	01/21/23 06:45	1
13C8 FOSA	125		10 - 150	01/18/23 06:12	01/21/23 06:45	1
d3-NMeFOSAA	105		25 - 150	01/18/23 06:12	01/21/23 06:45	1
d5-NEtFOSAA	113		25 - 150	01/18/23 06:12	01/21/23 06:45	1
d-N-MeFOSA-M	95		10 - 150	01/18/23 06:12	01/21/23 06:45	1
d-N-EtFOSA-M	103		10 - 150	01/18/23 06:12	01/21/23 06:45	1
d7-N-MeFOSE-M	102		10 - 150	01/18/23 06:12	01/21/23 06:45	1
d9-N-EtFOSE-M	101		10 - 150	01/18/23 06:12	01/21/23 06:45	1
M2-4:2 FTS	105		25 - 150	01/18/23 06:12	01/21/23 06:45	1
M2-6:2 FTS	86		25 - 150	01/18/23 06:12	01/21/23 06:45	1
M2-8:2 FTS	83		25 - 150	01/18/23 06:12	01/21/23 06:45	1
13C3 HFPO-DA	128		25 - 150	01/18/23 06:12	01/21/23 06:45	1
13C2 10:2 FTS	85		25 - 150	01/18/23 06:12	01/21/23 06:45	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-16
Lab Sample ID: 500-228026-11
Date Collected: 01/10/23 14:21
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**9.9**		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluoropentanoic acid (PFPeA)	**3.9**		1.9	0.46	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorohexanoic acid (PFHxA)	**16**		1.9	0.55	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluoroheptanoic acid (PFHpA)	**45**		1.9	0.24	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorononanoic acid (PFNA)	**0.77**	**J**	1.9	0.26	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorohexanesulfonic acid (PFHxS)	**1.7**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/18/23 06:12	01/21/23 06:04	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		01/18/23 06:12	01/21/23 06:04	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/18/23 06:12	01/21/23 06:04	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:12	01/21/23 06:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:12	01/21/23 06:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:12	01/21/23 06:04	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:12	01/21/23 06:04	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/18/23 06:12	01/21/23 06:04	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:04	1
6:2 FTS	<2.4		4.7	2.4	ng/L		01/18/23 06:12	01/21/23 06:04	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:12	01/21/23 06:04	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:12	01/21/23 06:04	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:12	01/21/23 06:04	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:04	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C5 PFPeA	*92*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C2 PFHxA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C4 PFHpA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C5 PFNA	*98*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C2 PFDA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C2 PFUnA	*110*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C2 PFDoA	*92*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C2 PFTeDA	*91*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
13C3 PFBS	*134*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*
18O2 PFHxS	*109*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:04*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-16
Lab Sample ID: 500-228026-11
Date Collected: 01/10/23 14:21
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	104		25 - 150	01/18/23 06:12	01/21/23 06:04	1
13C8 FOSA	119		10 - 150	01/18/23 06:12	01/21/23 06:04	1
d3-NMeFOSAA	103		25 - 150	01/18/23 06:12	01/21/23 06:04	1
d5-NEtFOSAA	110		25 - 150	01/18/23 06:12	01/21/23 06:04	1
d-N-MeFOSA-M	93		10 - 150	01/18/23 06:12	01/21/23 06:04	1
d-N-EtFOSA-M	98		10 - 150	01/18/23 06:12	01/21/23 06:04	1
d7-N-MeFOSE-M	98		10 - 150	01/18/23 06:12	01/21/23 06:04	1
d9-N-EtFOSE-M	98		10 - 150	01/18/23 06:12	01/21/23 06:04	1
M2-4:2 FTS	107		25 - 150	01/18/23 06:12	01/21/23 06:04	1
M2-6:2 FTS	82		25 - 150	01/18/23 06:12	01/21/23 06:04	1
M2-8:2 FTS	89		25 - 150	01/18/23 06:12	01/21/23 06:04	1
13C3 HFPO-DA	141		25 - 150	01/18/23 06:12	01/21/23 06:04	1
13C2 10:2 FTS	76		25 - 150	01/18/23 06:12	01/21/23 06:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	650		9.5	4.0	ng/L		01/18/23 06:12	02/03/23 10:50	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	102		25 - 150	01/18/23 06:12	02/03/23 10:50	5

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-16A
Lab Sample ID: 500-228026-12
Date Collected: 01/10/23 14:55
Matrix: Water
Date Received: 01/13/23 09:30

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		01/18/23 06:12	01/21/23 06:14	1
Perfluoropentanoic acid (PFPeA)	**0.73**	**J**	1.9	0.46	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorohexanoic acid (PFHxA)	**1.5**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluoroheptanoic acid (PFHpA)	**1.2**	**J**	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorooctanoic acid (PFOA)	**7.5**		1.9	0.80	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorohexanesulfonic acid (PFHxS)	**0.56**	**J**	1.9	0.54	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		01/18/23 06:12	01/21/23 06:14	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/18/23 06:12	01/21/23 06:14	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/18/23 06:12	01/21/23 06:14	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:12	01/21/23 06:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:12	01/21/23 06:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:12	01/21/23 06:14	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:12	01/21/23 06:14	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/18/23 06:12	01/21/23 06:14	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:14	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:12	01/21/23 06:14	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:12	01/21/23 06:14	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:12	01/21/23 06:14	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:12	01/21/23 06:14	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:14	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C5 PFPeA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C2 PFHxA	*94*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C4 PFHpA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C4 PFOA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C5 PFNA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C2 PFDA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C2 PFUnA	*101*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C2 PFDoA	*83*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*
13C3 PFBS	*117*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:14*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-16A
Lab Sample ID: 500-228026-12
Date Collected: 01/10/23 14:55
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	100		25 - 150	01/18/23 06:12	01/21/23 06:14	1
13C4 PFOS	93		25 - 150	01/18/23 06:12	01/21/23 06:14	1
13C8 FOSA	114		10 - 150	01/18/23 06:12	01/21/23 06:14	1
d3-NMeFOSAA	96		25 - 150	01/18/23 06:12	01/21/23 06:14	1
d5-NEtFOSAA	101		25 - 150	01/18/23 06:12	01/21/23 06:14	1
d-N-MeFOSA-M	85		10 - 150	01/18/23 06:12	01/21/23 06:14	1
d-N-EtFOSA-M	90		10 - 150	01/18/23 06:12	01/21/23 06:14	1
d7-N-MeFOSE-M	85		10 - 150	01/18/23 06:12	01/21/23 06:14	1
d9-N-EtFOSE-M	86		10 - 150	01/18/23 06:12	01/21/23 06:14	1
M2-4:2 FTS	85		25 - 150	01/18/23 06:12	01/21/23 06:14	1
M2-6:2 FTS	72		25 - 150	01/18/23 06:12	01/21/23 06:14	1
M2-8:2 FTS	86		25 - 150	01/18/23 06:12	01/21/23 06:14	1
13C3 HFPO-DA	122		25 - 150	01/18/23 06:12	01/21/23 06:14	1
13C2 10:2 FTS	66		25 - 150	01/18/23 06:12	01/21/23 06:14	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-04
Lab Sample ID: 500-228026-14
Date Collected: 01/10/23 15:25
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.1	2.4	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorohexanoic acid (PFHxA)	<0.59		2.0	0.59	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorooctanoic acid (PFOA)	<0.86		2.0	0.86	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorodecanoic acid (PFDA)	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorododecanoic acid (PFDoA)	<0.56		2.0	0.56	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.74		2.0	0.74	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.0	0.31	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.58		2.0	0.58	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.55		2.0	0.55	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.0	0.38	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.0	0.33	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.99		2.0	0.99	ng/L		01/18/23 06:12	01/21/23 06:35	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.0	1.0	ng/L		01/18/23 06:12	01/21/23 06:35	1
NEtFOSA	<0.88		2.0	0.88	ng/L		01/18/23 06:12	01/21/23 06:35	1
NMeFOSA	<0.44		2.0	0.44	ng/L		01/18/23 06:12	01/21/23 06:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.1	1.2	ng/L		01/18/23 06:12	01/21/23 06:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.1	1.3	ng/L		01/18/23 06:12	01/21/23 06:35	1
NMeFOSE	<1.4		4.1	1.4	ng/L		01/18/23 06:12	01/21/23 06:35	1
NEtFOSE	<0.86		2.0	0.86	ng/L		01/18/23 06:12	01/21/23 06:35	1
4:2 FTS	<0.24	*1	2.0	0.24	ng/L		01/18/23 06:12	01/21/23 06:35	1
6:2 FTS	<2.5		5.1	2.5	ng/L		01/18/23 06:12	01/21/23 06:35	1
8:2 FTS	<0.47		2.0	0.47	ng/L		01/18/23 06:12	01/21/23 06:35	1
DONA	<0.41		2.0	0.41	ng/L		01/18/23 06:12	01/21/23 06:35	1
HFPO-DA (GenX)	<1.5		4.1	1.5	ng/L		01/18/23 06:12	01/21/23 06:35	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 06:35	1
F-53B Minor	<0.33		2.0	0.33	ng/L		01/18/23 06:12	01/21/23 06:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C5 PFPeA	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C2 PFHxA	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C4 PFHpA	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C4 PFOA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C5 PFNA	*104*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C2 PFDA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C2 PFUnA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C2 PFDoA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*
13C3 PFBS	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:35*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-04
Lab Sample ID: 500-228026-14
Date Collected: 01/10/23 15:25
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	110		25 - 150	01/18/23 06:12	01/21/23 06:35	1
13C4 PFOS	107		25 - 150	01/18/23 06:12	01/21/23 06:35	1
13C8 FOSA	117		10 - 150	01/18/23 06:12	01/21/23 06:35	1
d3-NMeFOSAA	106		25 - 150	01/18/23 06:12	01/21/23 06:35	1
d5-NEtFOSAA	110		25 - 150	01/18/23 06:12	01/21/23 06:35	1
d-N-MeFOSA-M	88		10 - 150	01/18/23 06:12	01/21/23 06:35	1
d-N-EtFOSA-M	99		10 - 150	01/18/23 06:12	01/21/23 06:35	1
d7-N-MeFOSE-M	101		10 - 150	01/18/23 06:12	01/21/23 06:35	1
d9-N-EtFOSE-M	104		10 - 150	01/18/23 06:12	01/21/23 06:35	1
M2-4:2 FTS	87		25 - 150	01/18/23 06:12	01/21/23 06:35	1
M2-6:2 FTS	66		25 - 150	01/18/23 06:12	01/21/23 06:35	1
M2-8:2 FTS	84		25 - 150	01/18/23 06:12	01/21/23 06:35	1
13C3 HFPO-DA	120		25 - 150	01/18/23 06:12	01/21/23 06:35	1
13C2 10:2 FTS	85		25 - 150	01/18/23 06:12	01/21/23 06:35	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-04
Lab Sample ID: 500-228026-15
Date Collected: 01/10/23 16:00
Matrix: Water
Date Received: 01/13/23 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			01/16/23 12:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 12:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 12:49	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 12:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 12:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 12:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 12:49	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 12:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 12:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 12:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 12:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 12:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 12:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 12:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 12:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 12:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 12:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 12:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 12:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 12:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 12:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 12:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 12:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 12:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 12:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 12:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 12:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 12:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:49	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 12:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 12:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 12:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 12:49	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 12:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 12:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1

Client Sample ID: EB-04
Lab Sample ID: 500-228026-15
Date Collected: 01/10/23 16:00
Matrix: Water
Date Received: 01/13/23 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			01/16/23 12:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 12:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 12:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 12:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 12:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 12:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 12:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/16/23 12:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 12:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*01/16/23 12:49*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*01/16/23 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/16/23 12:49*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 12:49*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.2	2.5	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluoropentanoic acid (PFPeA)	<0.51		2.1	0.51	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorohexanoic acid (PFHxA)	<0.60		2.1	0.60	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorooctanoic acid (PFOA)	<0.88		2.1	0.88	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorononanoic acid (PFNA)	<0.28		2.1	0.28	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorodecanoic acid (PFDA)	<0.32		2.1	0.32	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.1	1.3	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.75		2.1	0.75	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.59		2.1	0.59	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.56		2.1	0.56	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		01/18/23 06:27	01/23/23 17:10	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		01/18/23 06:27	01/23/23 17:10	1
NEtFOSA	<0.90		2.1	0.90	ng/L		01/18/23 06:27	01/23/23 17:10	1
NMeFOSA	<0.44		2.1	0.44	ng/L		01/18/23 06:27	01/23/23 17:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.2	1.2	ng/L		01/18/23 06:27	01/23/23 17:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.2	1.3	ng/L		01/18/23 06:27	01/23/23 17:10	1
NMeFOSE	<1.4		4.1	1.4	ng/L		01/18/23 06:27	01/23/23 17:10	1
NEtFOSE	<0.88		2.1	0.88	ng/L		01/18/23 06:27	01/23/23 17:10	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-04
Lab Sample ID: 500-228026-15
Date Collected: 01/10/23 16:00
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.25		2.1	0.25	ng/L		01/18/23 06:27	01/23/23 17:10	1
6:2 FTS	<2.6		5.2	2.6	ng/L		01/18/23 06:27	01/23/23 17:10	1
8:2 FTS	<0.48		2.1	0.48	ng/L		01/18/23 06:27	01/23/23 17:10	1
DONA	<0.41		2.1	0.41	ng/L		01/18/23 06:27	01/23/23 17:10	1
HFPO-DA (GenX)	<1.6		4.1	1.6	ng/L		01/18/23 06:27	01/23/23 17:10	1
F-53B Major	<0.25		2.1	0.25	ng/L		01/18/23 06:27	01/23/23 17:10	1
F-53B Minor	<0.33		2.1	0.33	ng/L		01/18/23 06:27	01/23/23 17:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C5 PFPeA	*106*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 PFHxA	*110*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C4 PFHpA	*101*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C4 PFOA	*110*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C5 PFNA	*104*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 PFDA	*108*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 PFUnA	*109*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 PFDoA	*99*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C3 PFBS	*116*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
18O2 PFHxS	*117*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C4 PFOS	*109*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C8 FOSA	*112*		*10 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d3-NMeFOSAA	*109*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d5-NEtFOSAA	*111*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d-N-MeFOSA-M	*92*		*10 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d-N-EtFOSA-M	*102*		*10 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d7-N-MeFOSE-M	*100*		*10 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
d9-N-EtFOSE-M	*99*		*10 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
M2-4:2 FTS	*115*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C3 HFPO-DA	*129*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*
13C2 10:2 FTS	*96*		*25 - 150*	*01/18/23 06:27*	*01/23/23 17:10*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-14
Lab Sample ID: 500-228026-16
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**19**		4.8	2.3	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluoropentanoic acid (PFPeA)	**23**		1.9	0.47	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorohexanoic acid (PFHxA)	**29**		1.9	0.56	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluoroheptanoic acid (PFHpA)	**15**		1.9	0.24	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorooctanoic acid (PFOA)	**180**		1.9	0.82	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorononanoic acid (PFNA)	**0.33**	**J**	1.9	0.26	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorobutanesulfonic acid (PFBS)	**4.6**		1.9	0.19	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluoropentanesulfonic acid (PFPeS)	**0.38**	**J I**	1.9	0.29	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorohexanesulfonic acid (PFHxS)	**5.1**		1.9	0.55	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorooctanesulfonic acid (PFOS)	**6.3**	**I**	1.9	0.52	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/18/23 06:27	01/23/23 18:01	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/18/23 06:27	01/23/23 18:01	1
NEtFOSA	<0.84		1.9	0.84	ng/L		01/18/23 06:27	01/23/23 18:01	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:27	01/23/23 18:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:27	01/23/23 18:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		01/18/23 06:27	01/23/23 18:01	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:27	01/23/23 18:01	1
NEtFOSE	<0.82		1.9	0.82	ng/L		01/18/23 06:27	01/23/23 18:01	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/23/23 18:01	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:27	01/23/23 18:01	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:27	01/23/23 18:01	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:27	01/23/23 18:01	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:27	01/23/23 18:01	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/23/23 18:01	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/23/23 18:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*69*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C5 PFPeA	*89*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C2 PFHxA	*94*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C4 PFHpA	*96*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C4 PFOA	*95*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C5 PFNA	*100*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C2 PFDA	*98*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C2 PFUnA	*84*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*
13C2 PFDoA	*72*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:01*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-14
Lab Sample ID: 500-228026-16
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	72		25 - 150	01/18/23 06:27	01/23/23 18:01	1
13C3 PFBS	114		25 - 150	01/18/23 06:27	01/23/23 18:01	1
18O2 PFHxS	89		25 - 150	01/18/23 06:27	01/23/23 18:01	1
13C4 PFOS	86		25 - 150	01/18/23 06:27	01/23/23 18:01	1
13C8 FOSA	102		10 - 150	01/18/23 06:27	01/23/23 18:01	1
d3-NMeFOSAA	82		25 - 150	01/18/23 06:27	01/23/23 18:01	1
d5-NEtFOSAA	85		25 - 150	01/18/23 06:27	01/23/23 18:01	1
d-N-MeFOSA-M	66		10 - 150	01/18/23 06:27	01/23/23 18:01	1
d-N-EtFOSA-M	73		10 - 150	01/18/23 06:27	01/23/23 18:01	1
d7-N-MeFOSE-M	68		10 - 150	01/18/23 06:27	01/23/23 18:01	1
d9-N-EtFOSE-M	65		10 - 150	01/18/23 06:27	01/23/23 18:01	1
M2-4:2 FTS	110		25 - 150	01/18/23 06:27	01/23/23 18:01	1
M2-6:2 FTS	77		25 - 150	01/18/23 06:27	01/23/23 18:01	1
M2-8:2 FTS	78		25 - 150	01/18/23 06:27	01/23/23 18:01	1
13C3 HFPO-DA	130		25 - 150	01/18/23 06:27	01/23/23 18:01	1
13C2 10:2 FTS	60		25 - 150	01/18/23 06:27	01/23/23 18:01	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-17
Lab Sample ID: 500-228026-17
Date Collected: 01/11/23 08:40
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.4**		4.7	2.2	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluoropentanoic acid (PFPeA)	**2.2**		1.9	0.46	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorohexanoic acid (PFHxA)	**2.1**		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluoroheptanoic acid (PFHpA)	**3.4**		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorooctanoic acid (PFOA)	**57**		1.9	0.80	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorononanoic acid (PFNA)	**0.37**	**J**	1.9	0.25	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorobutanesulfonic acid (PFBS)	**2.0**		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J**	1.9	0.53	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorooctanesulfonic acid (PFOS)	**2.3**	**I**	1.9	0.51	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		01/18/23 06:27	01/21/23 08:28	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/18/23 06:27	01/21/23 08:28	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/18/23 06:27	01/21/23 08:28	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:27	01/21/23 08:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:27	01/21/23 08:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:27	01/21/23 08:28	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:27	01/21/23 08:28	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/18/23 06:27	01/21/23 08:28	1
4:2 FTS	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 08:28	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:27	01/21/23 08:28	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:27	01/21/23 08:28	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:27	01/21/23 08:28	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:27	01/21/23 08:28	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 08:28	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C5 PFPeA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C2 PFHxA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C4 PFHpA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C4 PFOA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C5 PFNA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C2 PFDA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C2 PFUnA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*
13C2 PFDoA	*97*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:28*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-17
Lab Sample ID: 500-228026-17
Date Collected: 01/11/23 08:40
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	92		25 - 150	01/18/23 06:27	01/21/23 08:28	1
13C3 PFBS	120		25 - 150	01/18/23 06:27	01/21/23 08:28	1
18O2 PFHxS	108		25 - 150	01/18/23 06:27	01/21/23 08:28	1
13C4 PFOS	106		25 - 150	01/18/23 06:27	01/21/23 08:28	1
13C8 FOSA	120		10 - 150	01/18/23 06:27	01/21/23 08:28	1
d3-NMeFOSAA	103		25 - 150	01/18/23 06:27	01/21/23 08:28	1
d5-NEtFOSAA	103		25 - 150	01/18/23 06:27	01/21/23 08:28	1
d-N-MeFOSA-M	91		10 - 150	01/18/23 06:27	01/21/23 08:28	1
d-N-EtFOSA-M	98		10 - 150	01/18/23 06:27	01/21/23 08:28	1
d7-N-MeFOSE-M	99		10 - 150	01/18/23 06:27	01/21/23 08:28	1
d9-N-EtFOSE-M	96		10 - 150	01/18/23 06:27	01/21/23 08:28	1
M2-4:2 FTS	94		25 - 150	01/18/23 06:27	01/21/23 08:28	1
M2-6:2 FTS	76		25 - 150	01/18/23 06:27	01/21/23 08:28	1
M2-8:2 FTS	83		25 - 150	01/18/23 06:27	01/21/23 08:28	1
13C3 HFPO-DA	117		25 - 150	01/18/23 06:27	01/21/23 08:28	1
13C2 10:2 FTS	69		25 - 150	01/18/23 06:27	01/21/23 08:28	1

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

Job ID: 500-228026-1

Client Sample ID: MW-219
Date Collected: 01/11/23 09:48
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-18
Matrix: Water

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			01/16/23 13:15	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 13:15	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 13:15	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 13:15	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 13:15	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 13:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 13:15	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 13:15	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 13:15	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 13:15	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 13:15	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 13:15	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 13:15	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 13:15	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 13:15	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 13:15	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 13:15	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 13:15	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 13:15	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 13:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 13:15	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 13:15	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 13:15	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 13:15	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 13:15	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 13:15	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 13:15	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 13:15	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 13:15	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 13:15	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 13:15	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 13:15	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 13:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 13:15	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 13:15	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 13:15	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 13:15	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-219
Lab Sample ID: 500-228026-18
Date Collected: 01/11/23 09:48
Matrix: Water
Date Received: 01/13/23 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			01/16/23 13:15	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 13:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 13:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 13:15	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 13:15	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 13:15	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 13:15	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/16/23 13:15	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/16/23 13:15	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 13:15	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*01/16/23 13:15*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*01/16/23 13:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/16/23 13:15*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 13:15*	*1*

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

Job ID: 500-228026-1

Client Sample ID: MW-121
Date Collected: 01/11/23 10:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**64**		0.50	0.15	ug/L			01/16/23 13:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 13:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 13:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 13:41	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 13:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 13:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 13:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 13:41	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 13:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 13:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 13:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 13:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 13:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 13:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 13:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 13:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 13:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 13:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 13:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 13:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 13:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 13:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 13:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 13:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 13:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 13:41	1
Ethylbenzene	**58**		0.50	0.18	ug/L			01/16/23 13:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 13:41	1
Isopropylbenzene	**28**		1.0	0.39	ug/L			01/16/23 13:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 13:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 13:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
Naphthalene	**65**		1.0	0.34	ug/L			01/16/23 13:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
N-Propylbenzene	**37**		1.0	0.41	ug/L			01/16/23 13:41	1
p-Isopropyltoluene	**8.5**		1.0	0.36	ug/L			01/16/23 13:41	1
sec-Butylbenzene	**5.5**	**B**	1.0	0.40	ug/L			01/16/23 13:41	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 13:41	1
tert-Butylbenzene	**1.3**	**B**	1.0	0.40	ug/L			01/16/23 13:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 13:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 13:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 13:41	1
Toluene	**0.24**	**J**	0.50	0.15	ug/L			01/16/23 13:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 13:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 13:41	1

Client Sample ID: MW-121
Lab Sample ID: 500-228026-19
Date Collected: 01/11/23 10:40
Matrix: Water
Date Received: 01/13/23 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			01/16/23 13:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 13:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 13:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 13:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 13:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 13:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 13:41	1
1,3,5-Trimethylbenzene	**51**	**B**	1.0	0.25	ug/L			01/16/23 13:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 13:41	1
Xylenes, Total	**120**		1.0	0.22	ug/L			01/16/23 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*01/16/23 13:41*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*01/16/23 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*01/16/23 13:41*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*01/16/23 13:41*	*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	**200**	**B**	10	3.6	ug/L			01/16/23 14:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*01/16/23 14:07*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*01/16/23 14:07*	*10*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/16/23 14:07*	*10*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 14:07*	*10*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12
Date Collected: 01/11/23 11:46
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-20
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<12		50	12	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorohexanoic acid (PFHxA)	<15		50	15	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluoroheptanoic acid (PFHpA)	**280**		50	6.3	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorooctanoic acid (PFOA)	**8000**		50	21	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorononanoic acid (PFNA)	<6.8		50	6.8	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorodecanoic acid (PFDA)	<7.8		50	7.8	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluoroundecanoic acid (PFUnA)	<28		50	28	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorododecanoic acid (PFDoA)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorotridecanoic acid (PFTriA)	<33		50	33	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorotetradecanoic acid (PFTeA)	<18		50	18	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorobutanesulfonic acid (PFBS)	<5.0		50	5.0	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluoropentanesulfonic acid (PFPeS)	<7.5		50	7.5	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorohexanesulfonic acid (PFHxS)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<4.8		50	4.8	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorooctanesulfonic acid (PFOS)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorononanesulfonic acid (PFNS)	<9.3		50	9.3	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorodecanesulfonic acid (PFDS)	<8.0		50	8.0	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorododecanesulfonic acid (PFDoS)	<24		50	24	ng/L		01/18/23 06:27	01/23/23 18:12	1
Perfluorooctanesulfonamide (FOSA)	<25		50	25	ng/L		01/18/23 06:27	01/23/23 18:12	1
NEtFOSA	<22		50	22	ng/L		01/18/23 06:27	01/23/23 18:12	1
NMeFOSA	<11		50	11	ng/L		01/18/23 06:27	01/23/23 18:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<30		130	30	ng/L		01/18/23 06:27	01/23/23 18:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<33		130	33	ng/L		01/18/23 06:27	01/23/23 18:12	1
NMeFOSE	<35		100	35	ng/L		01/18/23 06:27	01/23/23 18:12	1
NEtFOSE	<21		50	21	ng/L		01/18/23 06:27	01/23/23 18:12	1
4:2 FTS	<6.0		50	6.0	ng/L		01/18/23 06:27	01/23/23 18:12	1
6:2 FTS	<63		130	63	ng/L		01/18/23 06:27	01/23/23 18:12	1
8:2 FTS	<12		50	12	ng/L		01/18/23 06:27	01/23/23 18:12	1
DONA	<10		50	10	ng/L		01/18/23 06:27	01/23/23 18:12	1
HFPO-DA (GenX)	<38		100	38	ng/L		01/18/23 06:27	01/23/23 18:12	1
F-53B Major	<6.0		50	6.0	ng/L		01/18/23 06:27	01/23/23 18:12	1
F-53B Minor	<8.0		50	8.0	ng/L		01/18/23 06:27	01/23/23 18:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*16*	**5-*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C2 PFHxA	*54*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C4 PFHpA	*73*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C4 PFOA	*105*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C5 PFNA	*160*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C2 PFDA	*251*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C2 PFUnA	*215*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C2 PFDoA	*186*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C2 PFTeDA	*107*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C3 PFBS	*142*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
18O2 PFHxS	*134*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*
13C4 PFOS	*226*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:12*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12
Lab Sample ID: 500-228026-20
Date Collected: 01/11/23 11:46
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	213	*5+	10 - 150	01/18/23 06:27	01/23/23 18:12	1
d3-NMeFOSAA	117		25 - 150	01/18/23 06:27	01/23/23 18:12	1
d5-NEtFOSAA	161	*5+	25 - 150	01/18/23 06:27	01/23/23 18:12	1
d-N-MeFOSA-M	188	*5+	10 - 150	01/18/23 06:27	01/23/23 18:12	1
d-N-EtFOSA-M	189	*5+	10 - 150	01/18/23 06:27	01/23/23 18:12	1
d7-N-MeFOSE-M	157	*5+	10 - 150	01/18/23 06:27	01/23/23 18:12	1
d9-N-EtFOSE-M	134		10 - 150	01/18/23 06:27	01/23/23 18:12	1
M2-4:2 FTS	135		25 - 150	01/18/23 06:27	01/23/23 18:12	1
M2-6:2 FTS	139		25 - 150	01/18/23 06:27	01/23/23 18:12	1
M2-8:2 FTS	337	*5+	25 - 150	01/18/23 06:27	01/23/23 18:12	1
13C3 HFPO-DA	154	*5+	25 - 150	01/18/23 06:27	01/23/23 18:12	1
13C2 10:2 FTS	251	*5+	25 - 150	01/18/23 06:27	01/23/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	88000		6300	3000	ng/L		01/18/23 06:27	02/03/23 17:34	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	24	*5-	25 - 150	01/18/23 06:27	02/03/23 17:34	50

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-228026-21

Date Collected: 01/11/23 11:48
Matrix: Water

Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<12		50	12	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorohexanoic acid (PFHxA)	<15		50	15	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluoroheptanoic acid (PFHpA)	<6.3		50	6.3	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorooctanoic acid (PFOA)	**7100**		50	21	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorononanoic acid (PFNA)	<6.8		50	6.8	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorodecanoic acid (PFDA)	<7.8		50	7.8	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluoroundecanoic acid (PFUnA)	<28		50	28	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorododecanoic acid (PFDoA)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorotridecanoic acid (PFTriA)	<33		50	33	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorotetradecanoic acid (PFTeA)	<18		50	18	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorobutanesulfonic acid (PFBS)	<5.0		50	5.0	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluoropentanesulfonic acid (PFPeS)	<7.5		50	7.5	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorohexanesulfonic acid (PFHxS)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<4.8		50	4.8	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorooctanesulfonic acid (PFOS)	<14		50	14	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorononanesulfonic acid (PFNS)	<9.3		50	9.3	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorodecanesulfonic acid (PFDS)	<8.0		50	8.0	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorododecanesulfonic acid (PFDoS)	<24		50	24	ng/L		01/18/23 06:27	01/23/23 18:22	1
Perfluorooctanesulfonamide (FOSA)	<25		50	25	ng/L		01/18/23 06:27	01/23/23 18:22	1
NEtFOSA	<22		50	22	ng/L		01/18/23 06:27	01/23/23 18:22	1
NMeFOSA	<11		50	11	ng/L		01/18/23 06:27	01/23/23 18:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<30		130	30	ng/L		01/18/23 06:27	01/23/23 18:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<33		130	33	ng/L		01/18/23 06:27	01/23/23 18:22	1
NMeFOSE	<35		100	35	ng/L		01/18/23 06:27	01/23/23 18:22	1
NEtFOSE	<21		50	21	ng/L		01/18/23 06:27	01/23/23 18:22	1
4:2 FTS	<6.0		50	6.0	ng/L		01/18/23 06:27	01/23/23 18:22	1
6:2 FTS	<63		130	63	ng/L		01/18/23 06:27	01/23/23 18:22	1
8:2 FTS	<12		50	12	ng/L		01/18/23 06:27	01/23/23 18:22	1
DONA	<10		50	10	ng/L		01/18/23 06:27	01/23/23 18:22	1
HFPO-DA (GenX)	<38		100	38	ng/L		01/18/23 06:27	01/23/23 18:22	1
F-53B Major	<6.0		50	6.0	ng/L		01/18/23 06:27	01/23/23 18:22	1
F-53B Minor	<8.0		50	8.0	ng/L		01/18/23 06:27	01/23/23 18:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*18*	**5-*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C2 PFHxA	*53*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C4 PFHpA	*71*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C4 PFOA	*102*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C5 PFNA	*144*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C2 PFDA	*230*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C2 PFUnA	*194*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C2 PFDoA	*163*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C3 PFBS	*132*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
18O2 PFHxS	*133*		*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*
13C4 PFOS	*208*	**5+*	*25 - 150*	*01/18/23 06:27*	*01/23/23 18:22*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-228026-21
Date Collected: 01/11/23 11:48
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	200	*5+	10 - 150	01/18/23 06:27	01/23/23 18:22	1
d3-NMeFOSAA	109		25 - 150	01/18/23 06:27	01/23/23 18:22	1
d5-NEtFOSAA	145		25 - 150	01/18/23 06:27	01/23/23 18:22	1
d-N-MeFOSA-M	162	*5+	10 - 150	01/18/23 06:27	01/23/23 18:22	1
d-N-EtFOSA-M	175	*5+	10 - 150	01/18/23 06:27	01/23/23 18:22	1
d7-N-MeFOSE-M	153	*5+	10 - 150	01/18/23 06:27	01/23/23 18:22	1
d9-N-EtFOSE-M	133		10 - 150	01/18/23 06:27	01/23/23 18:22	1
M2-4:2 FTS	109		25 - 150	01/18/23 06:27	01/23/23 18:22	1
M2-6:2 FTS	128		25 - 150	01/18/23 06:27	01/23/23 18:22	1
M2-8:2 FTS	328	*5+	25 - 150	01/18/23 06:27	01/23/23 18:22	1
13C3 HFPO-DA	145		25 - 150	01/18/23 06:27	01/23/23 18:22	1
13C2 10:2 FTS	183	*5+	25 - 150	01/18/23 06:27	01/23/23 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	150000		6300	3000	ng/L		01/18/23 06:27	02/03/23 17:44	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	10	*5-	25 - 150	01/18/23 06:27	02/03/23 17:44	50

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-06
Lab Sample ID: 500-228026-22
Date Collected: 01/11/23 12:09
Matrix: Water
Date Received: 01/13/23 09:30

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		01/18/23 06:27	01/21/23 08:38	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/18/23 06:27	01/21/23 08:38	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/18/23 06:27	01/21/23 08:38	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:27	01/21/23 08:38	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:27	01/21/23 08:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:27	01/21/23 08:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:27	01/21/23 08:38	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:27	01/21/23 08:38	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:27	01/21/23 08:38	1
4:2 FTS	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 08:38	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:27	01/21/23 08:38	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:27	01/21/23 08:38	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:27	01/21/23 08:38	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:27	01/21/23 08:38	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 08:38	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C2 PFHxA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C4 PFHpA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C5 PFNA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C2 PFDA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C2 PFUnA	*115*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C2 PFDoA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C2 PFTeDA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*
13C3 PFBS	*114*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:38*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-06
Lab Sample ID: 500-228026-22
Date Collected: 01/11/23 12:09
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	118		25 - 150	01/18/23 06:27	01/21/23 08:38	1
13C4 PFOS	110		25 - 150	01/18/23 06:27	01/21/23 08:38	1
13C8 FOSA	115		10 - 150	01/18/23 06:27	01/21/23 08:38	1
d3-NMeFOSAA	111		25 - 150	01/18/23 06:27	01/21/23 08:38	1
d5-NEtFOSAA	121		25 - 150	01/18/23 06:27	01/21/23 08:38	1
d-N-MeFOSA-M	91		10 - 150	01/18/23 06:27	01/21/23 08:38	1
d-N-EtFOSA-M	101		10 - 150	01/18/23 06:27	01/21/23 08:38	1
d7-N-MeFOSE-M	104		10 - 150	01/18/23 06:27	01/21/23 08:38	1
d9-N-EtFOSE-M	100		10 - 150	01/18/23 06:27	01/21/23 08:38	1
M2-4:2 FTS	89		25 - 150	01/18/23 06:27	01/21/23 08:38	1
M2-6:2 FTS	84		25 - 150	01/18/23 06:27	01/21/23 08:38	1
M2-8:2 FTS	85		25 - 150	01/18/23 06:27	01/21/23 08:38	1
13C3 HFPO-DA	116		25 - 150	01/18/23 06:27	01/21/23 08:38	1
13C2 10:2 FTS	74		25 - 150	01/18/23 06:27	01/21/23 08:38	1

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

Job ID: 500-228026-1

Client Sample ID: EB-06
Date Collected: 01/11/23 12:12
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-23
Matrix: Water

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			01/17/23 14:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 14:03	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 14:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 14:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 14:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 14:03	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 14:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 14:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 14:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 14:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 14:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 14:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 14:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 14:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 14:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 14:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 14:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 14:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 14:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 14:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 14:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 14:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 14:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 14:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 14:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 14:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 14:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:03	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 14:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 14:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 14:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 14:03	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 14:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 14:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-06
Lab Sample ID: 500-228026-23
Date Collected: 01/11/23 12:12
Matrix: Water
Date Received: 01/13/23 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			01/17/23 14:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 14:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 14:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 14:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 14:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 14:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 14:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 14:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*		*01/17/23 14:03*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*01/17/23 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*01/17/23 14:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*01/17/23 14:03*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/18/23 06:27	01/21/23 08:48	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/18/23 06:27	01/21/23 08:48	1
NEtFOSA	<0.84		1.9	0.84	ng/L		01/18/23 06:27	01/21/23 08:48	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:27	01/21/23 08:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:27	01/21/23 08:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		01/18/23 06:27	01/21/23 08:48	1
NMeFOSE	<1.3		3.9	1.3	ng/L		01/18/23 06:27	01/21/23 08:48	1
NEtFOSE	<0.82		1.9	0.82	ng/L		01/18/23 06:27	01/21/23 08:48	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-06
Lab Sample ID: 500-228026-23
Date Collected: 01/11/23 12:12
Matrix: Water
Date Received: 01/13/23 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		01/18/23 06:27	01/21/23 08:48	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:27	01/21/23 08:48	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:27	01/21/23 08:48	1
DONA	<0.39		1.9	0.39	ng/L		01/18/23 06:27	01/21/23 08:48	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		01/18/23 06:27	01/21/23 08:48	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 08:48	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/21/23 08:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C5 PFPeA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 PFHxA	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C4 PFHpA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C4 PFOA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C5 PFNA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 PFDA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 PFUnA	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 PFDoA	*92*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 PFTeDA	*99*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C3 PFBS	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
18O2 PFHxS	*114*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C4 PFOS	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C8 FOSA	*108*		*10 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d5-NEtFOSAA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d-N-MeFOSA-M	*89*		*10 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d-N-EtFOSA-M	*96*		*10 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d7-N-MeFOSE-M	*100*		*10 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
d9-N-EtFOSE-M	*99*		*10 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
M2-4:2 FTS	*86*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
M2-6:2 FTS	*82*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C3 HFPO-DA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*
13C2 10:2 FTS	*70*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:48*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-201
Lab Sample ID: 500-228026-24
Date Collected: 01/09/23 13:01
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**32**		4.7	2.3	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluoropentanoic acid (PFPeA)	**50**		1.9	0.46	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorohexanoic acid (PFHxA)	**59**		1.9	0.55	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluoroheptanoic acid (PFHpA)	**13**		1.9	0.24	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorooctanoic acid (PFOA)	**220**		1.9	0.80	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorobutanesulfonic acid (PFBS)	**2.9**		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluoropentanesulfonic acid (PFPeS)	**0.37**	**J**	1.9	0.28	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorohexanesulfonic acid (PFHxS)	**7.1**		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorooctanesulfonic acid (PFOS)	**4.4**		1.9	0.51	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/18/23 06:27	01/21/23 08:59	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/18/23 06:27	01/21/23 08:59	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/18/23 06:27	01/21/23 08:59	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:27	01/21/23 08:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:27	01/21/23 08:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:27	01/21/23 08:59	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:27	01/21/23 08:59	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/18/23 06:27	01/21/23 08:59	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 08:59	1
6:2 FTS	<2.4		4.7	2.4	ng/L		01/18/23 06:27	01/21/23 08:59	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:27	01/21/23 08:59	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:27	01/21/23 08:59	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:27	01/21/23 08:59	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 08:59	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 08:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*80*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C2 PFHxA	*99*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C4 PFHpA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C4 PFOA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C5 PFNA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C2 PFDA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C2 PFUnA	*99*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*
13C2 PFDoA	*92*		*25 - 150*	*01/18/23 06:27*	*01/21/23 08:59*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-201
Lab Sample ID: 500-228026-24
Date Collected: 01/09/23 13:01
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89		25 - 150	01/18/23 06:27	01/21/23 08:59	1
13C3 PFBS	128		25 - 150	01/18/23 06:27	01/21/23 08:59	1
18O2 PFHxS	109		25 - 150	01/18/23 06:27	01/21/23 08:59	1
13C4 PFOS	100		25 - 150	01/18/23 06:27	01/21/23 08:59	1
13C8 FOSA	109		10 - 150	01/18/23 06:27	01/21/23 08:59	1
d3-NMeFOSAA	102		25 - 150	01/18/23 06:27	01/21/23 08:59	1
d5-NEtFOSAA	102		25 - 150	01/18/23 06:27	01/21/23 08:59	1
d-N-MeFOSA-M	87		10 - 150	01/18/23 06:27	01/21/23 08:59	1
d-N-EtFOSA-M	91		10 - 150	01/18/23 06:27	01/21/23 08:59	1
d7-N-MeFOSE-M	91		10 - 150	01/18/23 06:27	01/21/23 08:59	1
d9-N-EtFOSE-M	90		10 - 150	01/18/23 06:27	01/21/23 08:59	1
M2-4:2 FTS	101		25 - 150	01/18/23 06:27	01/21/23 08:59	1
M2-6:2 FTS	73		25 - 150	01/18/23 06:27	01/21/23 08:59	1
M2-8:2 FTS	86		25 - 150	01/18/23 06:27	01/21/23 08:59	1
13C3 HFPO-DA	130		25 - 150	01/18/23 06:27	01/21/23 08:59	1
13C2 10:2 FTS	65		25 - 150	01/18/23 06:27	01/21/23 08:59	1

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

Job ID: 500-228026-1

Client Sample ID: MW-204
Date Collected: 01/09/23 13:50
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-25
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.6**		4.7	2.2	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluoropentanoic acid (PFPeA)	**4.3**		1.9	0.46	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorohexanoic acid (PFHxA)	**7.6**		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluoroheptanoic acid (PFHpA)	**6.5**		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorooctanoic acid (PFOA)	**110**		1.9	0.79	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorononanoic acid (PFNA)	**0.77**	**J**	1.9	0.25	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorodecanoic acid (PFDA)	**0.38**	**J**	1.9	0.29	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorobutanesulfonic acid (PFBS)	**1.8**	**J**	1.9	0.19	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluoropentanesulfonic acid (PFPeS)	**0.59**	**J**	1.9	0.28	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorohexanesulfonic acid (PFHxS)	**35**		1.9	0.53	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.30**	**J**	1.9	0.18	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorooctanesulfonic acid (PFOS)	**27**		1.9	0.50	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/18/23 06:27	01/21/23 09:09	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/18/23 06:27	01/21/23 09:09	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:27	01/21/23 09:09	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:27	01/21/23 09:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:27	01/21/23 09:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:27	01/21/23 09:09	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:27	01/21/23 09:09	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:27	01/21/23 09:09	1
4:2 FTS	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 09:09	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:27	01/21/23 09:09	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:27	01/21/23 09:09	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:27	01/21/23 09:09	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:27	01/21/23 09:09	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 09:09	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 09:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C5 PFPeA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C2 PFHxA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C4 PFHpA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C4 PFOA	*96*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C5 PFNA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C2 PFDA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C2 PFUnA	*93*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*
13C2 PFDoA	*75*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:09*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-204
Lab Sample ID: 500-228026-25
Date Collected: 01/09/23 13:50
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	80		25 - 150	01/18/23 06:27	01/21/23 09:09	1
13C3 PFBS	122		25 - 150	01/18/23 06:27	01/21/23 09:09	1
18O2 PFHxS	98		25 - 150	01/18/23 06:27	01/21/23 09:09	1
13C4 PFOS	89		25 - 150	01/18/23 06:27	01/21/23 09:09	1
13C8 FOSA	113		10 - 150	01/18/23 06:27	01/21/23 09:09	1
d3-NMeFOSAA	91		25 - 150	01/18/23 06:27	01/21/23 09:09	1
d5-NEtFOSAA	99		25 - 150	01/18/23 06:27	01/21/23 09:09	1
d-N-MeFOSA-M	80		10 - 150	01/18/23 06:27	01/21/23 09:09	1
d-N-EtFOSA-M	82		10 - 150	01/18/23 06:27	01/21/23 09:09	1
d7-N-MeFOSE-M	78		10 - 150	01/18/23 06:27	01/21/23 09:09	1
d9-N-EtFOSE-M	81		10 - 150	01/18/23 06:27	01/21/23 09:09	1
M2-4:2 FTS	107		25 - 150	01/18/23 06:27	01/21/23 09:09	1
M2-6:2 FTS	79		25 - 150	01/18/23 06:27	01/21/23 09:09	1
M2-8:2 FTS	81		25 - 150	01/18/23 06:27	01/21/23 09:09	1
13C3 HFPO-DA	124		25 - 150	01/18/23 06:27	01/21/23 09:09	1
13C2 10:2 FTS	58		25 - 150	01/18/23 06:27	01/21/23 09:09	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-206
Lab Sample ID: 500-228026-26
Date Collected: 01/09/23 14:35
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluoropentanoic acid (PFPeA)	**0.71**	**J**	1.9	0.48	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorohexanoic acid (PFHxA)	**0.82**	**J**	1.9	0.56	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluoroheptanoic acid (PFHpA)	**0.51**	**J**	1.9	0.24	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorooctanoic acid (PFOA)	**2.4**		1.9	0.83	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		1.9	0.53	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		01/18/23 06:27	01/21/23 09:40	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		01/18/23 06:27	01/21/23 09:40	1
NEtFOSA	<0.85		1.9	0.85	ng/L		01/18/23 06:27	01/21/23 09:40	1
NMeFOSA	<0.42		1.9	0.42	ng/L		01/18/23 06:27	01/21/23 09:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/18/23 06:27	01/21/23 09:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/18/23 06:27	01/21/23 09:40	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/18/23 06:27	01/21/23 09:40	1
NEtFOSE	<0.83		1.9	0.83	ng/L		01/18/23 06:27	01/21/23 09:40	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 09:40	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/18/23 06:27	01/21/23 09:40	1
8:2 FTS	<0.45		1.9	0.45	ng/L		01/18/23 06:27	01/21/23 09:40	1
DONA	<0.39		1.9	0.39	ng/L		01/18/23 06:27	01/21/23 09:40	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/18/23 06:27	01/21/23 09:40	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 09:40	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:27	01/21/23 09:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C5 PFPeA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C2 PFHxA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C4 PFHpA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C4 PFOA	*108*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C5 PFNA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C2 PFDA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C2 PFUnA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C2 PFDoA	*91*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C2 PFTeDA	*89*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*
13C3 PFBS	*119*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:40*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-206
Lab Sample ID: 500-228026-26
Date Collected: 01/09/23 14:35
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	103		25 - 150	01/18/23 06:27	01/21/23 09:40	1
13C4 PFOS	100		25 - 150	01/18/23 06:27	01/21/23 09:40	1
13C8 FOSA	117		10 - 150	01/18/23 06:27	01/21/23 09:40	1
d3-NMeFOSAA	100		25 - 150	01/18/23 06:27	01/21/23 09:40	1
d5-NEtFOSAA	98		25 - 150	01/18/23 06:27	01/21/23 09:40	1
d-N-MeFOSA-M	85		10 - 150	01/18/23 06:27	01/21/23 09:40	1
d-N-EtFOSA-M	91		10 - 150	01/18/23 06:27	01/21/23 09:40	1
d7-N-MeFOSE-M	86		10 - 150	01/18/23 06:27	01/21/23 09:40	1
d9-N-EtFOSE-M	89		10 - 150	01/18/23 06:27	01/21/23 09:40	1
M2-4:2 FTS	91		25 - 150	01/18/23 06:27	01/21/23 09:40	1
M2-6:2 FTS	75		25 - 150	01/18/23 06:27	01/21/23 09:40	1
M2-8:2 FTS	75		25 - 150	01/18/23 06:27	01/21/23 09:40	1
13C3 HFPO-DA	125		25 - 150	01/18/23 06:27	01/21/23 09:40	1
13C2 10:2 FTS	60		25 - 150	01/18/23 06:27	01/21/23 09:40	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213
Lab Sample ID: 500-228026-27

Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 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			01/16/23 15:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 15:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 15:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 15:00	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 15:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 15:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 15:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 15:00	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 15:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 15:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 15:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 15:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 15:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 15:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 15:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 15:00	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 15:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 15:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 15:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 15:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 15:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 15:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 15:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 15:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 15:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 15:00	1
Ethylbenzene	**51**		0.50	0.18	ug/L			01/16/23 15:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 15:00	1
Isopropylbenzene	**35**		1.0	0.39	ug/L			01/16/23 15:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 15:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 15:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
Naphthalene	**63**		1.0	0.34	ug/L			01/16/23 15:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
N-Propylbenzene	**49**		1.0	0.41	ug/L			01/16/23 15:00	1
p-Isopropyltoluene	**17**		1.0	0.36	ug/L			01/16/23 15:00	1
sec-Butylbenzene	**13**	**B**	1.0	0.40	ug/L			01/16/23 15:00	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 15:00	1
tert-Butylbenzene	**4.9**	**B**	1.0	0.40	ug/L			01/16/23 15:00	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 15:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 15:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 15:00	1
Toluene	**0.33**	**J**	0.50	0.15	ug/L			01/16/23 15:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 15:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 15:00	1

Client Sample ID: MW-213
Lab Sample ID: 500-228026-27
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 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			01/16/23 15:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 15:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 15:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 15:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 15:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 15:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 15:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 15:00	1
Xylenes, Total	**140**		1.0	0.22	ug/L			01/16/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*01/16/23 15:00*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*01/16/23 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*01/16/23 15:00*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*01/16/23 15:00*	*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	**400**	**B**	10	3.6	ug/L			01/16/23 15:26	10
1,3,5-Trimethylbenzene	**140**	**B**	10	2.5	ug/L			01/16/23 15:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*01/16/23 15:26*	*10*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*01/16/23 15:26*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*01/16/23 15:26*	*10*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 15:26*	*10*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**41**	**J CI**	50	24	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluoropentanoic acid (PFPeA)	<4.9		20	4.9	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorohexanoic acid (PFHxA)	**12**	**J**	20	5.8	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluoroheptanoic acid (PFHpA)	**45**		20	2.5	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorooctanoic acid (PFOA)	**660**		20	8.5	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorononanoic acid (PFNA)	<2.7		20	2.7	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorodecanoic acid (PFDA)	<3.1		20	3.1	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluoroundecanoic acid (PFUnA)	<11		20	11	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorododecanoic acid (PFDoA)	<5.5		20	5.5	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorotridecanoic acid (PFTriA)	<13		20	13	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorotetradecanoic acid (PFTeA)	<7.3		20	7.3	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		20	2.0	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluoropentanesulfonic acid (PFPeS)	<3.0		20	3.0	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorohexanesulfonic acid (PFHxS)	<5.7		20	5.7	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		20	1.9	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorooctanesulfonic acid (PFOS)	<5.4		20	5.4	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorononanesulfonic acid (PFNS)	<3.7		20	3.7	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorodecanesulfonic acid (PFDS)	<3.2		20	3.2	ng/L		01/18/23 06:27	01/21/23 10:52	1
Perfluorododecanesulfonic acid (PFDoS)	<9.7		20	9.7	ng/L		01/18/23 06:27	01/21/23 10:52	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213
Lab Sample ID: 500-228026-27
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<9.8		20	9.8	ng/L		01/18/23 06:27	01/21/23 10:52	1
NEtFOSA	<8.7		20	8.7	ng/L		01/18/23 06:27	01/21/23 10:52	1
NMeFOSA	<4.3		20	4.3	ng/L		01/18/23 06:27	01/21/23 10:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<12		50	12	ng/L		01/18/23 06:27	01/21/23 10:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<13		50	13	ng/L		01/18/23 06:27	01/21/23 10:52	1
NMeFOSE	<14		40	14	ng/L		01/18/23 06:27	01/21/23 10:52	1
NEtFOSE	<8.5		20	8.5	ng/L		01/18/23 06:27	01/21/23 10:52	1
4:2 FTS	<2.4		20	2.4	ng/L		01/18/23 06:27	01/21/23 10:52	1
6:2 FTS	<25		50	25	ng/L		01/18/23 06:27	01/21/23 10:52	1
8:2 FTS	<4.6		20	4.6	ng/L		01/18/23 06:27	01/21/23 10:52	1
DONA	<4.0		20	4.0	ng/L		01/18/23 06:27	01/21/23 10:52	1
HFPO-DA (GenX)	<15		40	15	ng/L		01/18/23 06:27	01/21/23 10:52	1
F-53B Major	<2.4		20	2.4	ng/L		01/18/23 06:27	01/21/23 10:52	1
F-53B Minor	<3.2		20	3.2	ng/L		01/18/23 06:27	01/21/23 10:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*77*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C5 PFPeA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 PFHxA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C4 PFHpA	*108*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C5 PFNA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 PFDA	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 PFUnA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 PFDoA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 PFTeDA	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C3 PFBS	*124*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
18O2 PFHxS	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C4 PFOS	*125*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C8 FOSA	*127*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d3-NMeFOSAA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d5-NEtFOSAA	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d-N-MeFOSA-M	*88*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d-N-EtFOSA-M	*106*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d7-N-MeFOSE-M	*108*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
d9-N-EtFOSE-M	*108*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
M2-4:2 FTS	*90*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
M2-6:2 FTS	*80*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C3 HFPO-DA	*139*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*
13C2 10:2 FTS	*72*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:52*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213 DUP
Lab Sample ID: 500-228026-28

Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 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			01/16/23 15:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 15:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 15:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 15:52	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 15:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 15:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 15:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 15:52	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 15:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 15:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 15:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 15:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 15:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 15:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 15:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 15:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 15:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 15:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 15:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 15:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 15:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 15:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 15:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 15:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 15:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 15:52	1
Ethylbenzene	**53**		0.50	0.18	ug/L			01/16/23 15:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 15:52	1
Isopropylbenzene	**37**		1.0	0.39	ug/L			01/16/23 15:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 15:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 15:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
Naphthalene	**62**		1.0	0.34	ug/L			01/16/23 15:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
N-Propylbenzene	**51**		1.0	0.41	ug/L			01/16/23 15:52	1
p-Isopropyltoluene	**17**		1.0	0.36	ug/L			01/16/23 15:52	1
sec-Butylbenzene	**14**	**B**	1.0	0.40	ug/L			01/16/23 15:52	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 15:52	1
tert-Butylbenzene	**5.2**	**B**	1.0	0.40	ug/L			01/16/23 15:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 15:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 15:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 15:52	1
Toluene	**0.27**	**J**	0.50	0.15	ug/L			01/16/23 15:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 15:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 15:52	1

Client Sample ID: MW-213 DUP
Lab Sample ID: 500-228026-28
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 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			01/16/23 15:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 15:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 15:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 15:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 15:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 15:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 15:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 15:52	1
Xylenes, Total	**140**		1.0	0.22	ug/L			01/16/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*01/16/23 15:52*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*01/16/23 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*01/16/23 15:52*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*01/16/23 15:52*	*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	**370**	**B**	10	3.6	ug/L			01/16/23 16:18	10
1,3,5-Trimethylbenzene	**130**	**B**	10	2.5	ug/L			01/16/23 16:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*01/16/23 16:18*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*01/16/23 16:18*	*10*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*01/16/23 16:18*	*10*
Toluene-d8 (Surr)	*95*		*75 - 120*		*01/16/23 16:18*	*10*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**37**	**J CI**	50	24	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluoropentanoic acid (PFPeA)	<4.9		20	4.9	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorohexanoic acid (PFHxA)	**8.6**	**J**	20	5.8	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluoroheptanoic acid (PFHpA)	**40**		20	2.5	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorooctanoic acid (PFOA)	**610**		20	8.5	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorononanoic acid (PFNA)	<2.7		20	2.7	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorodecanoic acid (PFDA)	<3.1		20	3.1	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluoroundecanoic acid (PFUnA)	<11		20	11	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorododecanoic acid (PFDoA)	<5.5		20	5.5	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorotridecanoic acid (PFTriA)	<13		20	13	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorotetradecanoic acid (PFTeA)	<7.3		20	7.3	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		20	2.0	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluoropentanesulfonic acid (PFPeS)	<3.0		20	3.0	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorohexanesulfonic acid (PFHxS)	<5.7		20	5.7	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		20	1.9	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorooctanesulfonic acid (PFOS)	**6.5**	**J**	20	5.4	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorononanesulfonic acid (PFNS)	<3.7		20	3.7	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorodecanesulfonic acid (PFDS)	<3.2		20	3.2	ng/L		01/18/23 06:27	01/21/23 11:02	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213 DUP
Lab Sample ID: 500-228026-28
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<9.7		20	9.7	ng/L		01/18/23 06:27	01/21/23 11:02	1
Perfluorooctanesulfonamide (FOSA)	<9.8		20	9.8	ng/L		01/18/23 06:27	01/21/23 11:02	1
NEtFOSA	<8.7		20	8.7	ng/L		01/18/23 06:27	01/21/23 11:02	1
NMeFOSA	<4.3		20	4.3	ng/L		01/18/23 06:27	01/21/23 11:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<12		50	12	ng/L		01/18/23 06:27	01/21/23 11:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<13		50	13	ng/L		01/18/23 06:27	01/21/23 11:02	1
NMeFOSE	<14		40	14	ng/L		01/18/23 06:27	01/21/23 11:02	1
NEtFOSE	<8.5		20	8.5	ng/L		01/18/23 06:27	01/21/23 11:02	1
4:2 FTS	<2.4		20	2.4	ng/L		01/18/23 06:27	01/21/23 11:02	1
6:2 FTS	<25		50	25	ng/L		01/18/23 06:27	01/21/23 11:02	1
8:2 FTS	<4.6		20	4.6	ng/L		01/18/23 06:27	01/21/23 11:02	1
DONA	<4.0		20	4.0	ng/L		01/18/23 06:27	01/21/23 11:02	1
HFPO-DA (GenX)	<15		40	15	ng/L		01/18/23 06:27	01/21/23 11:02	1
F-53B Major	<2.4		20	2.4	ng/L		01/18/23 06:27	01/21/23 11:02	1
F-53B Minor	<3.2		20	3.2	ng/L		01/18/23 06:27	01/21/23 11:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C5 PFPeA	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 PFHxA	*115*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C4 PFOA	*111*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C5 PFNA	*121*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 PFDA	*114*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 PFUnA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 PFDoA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 PFTeDA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C3 PFBS	*134*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
18O2 PFHxS	*108*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C4 PFOS	*111*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C8 FOSA	*125*		*10 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d3-NMeFOSAA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d5-NEtFOSAA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d-N-MeFOSA-M	*93*		*10 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d-N-EtFOSA-M	*105*		*10 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d7-N-MeFOSE-M	*105*		*10 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
d9-N-EtFOSE-M	*105*		*10 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
M2-4:2 FTS	*102*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
M2-6:2 FTS	*79*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C3 HFPO-DA	*130*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*
13C2 10:2 FTS	*84*		*25 - 150*	*01/18/23 06:27*	*01/21/23 11:02*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82
Lab Sample ID: 500-228026-29
Date Collected: 01/09/23 16:15
Matrix: Water
Date Received: 01/13/23 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			01/16/23 16:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 16:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 16:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 16:45	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 16:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 16:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 16:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 16:45	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 16:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 16:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 16:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 16:45	1
cis-1,2-Dichloroethene	**3.1**		1.0	0.41	ug/L			01/16/23 16:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 16:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 16:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 16:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 16:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 16:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 16:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 16:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 16:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 16:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 16:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 16:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 16:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 16:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 16:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 16:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 16:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 16:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
Naphthalene	**0.90**	**J**	1.0	0.34	ug/L			01/16/23 16:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
N-Propylbenzene	**0.63**	**J**	1.0	0.41	ug/L			01/16/23 16:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 16:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 16:45	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 16:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 16:45	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 16:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 16:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 16:45	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 16:45	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.35	ug/L			01/16/23 16:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 16:45	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-82
Lab Sample ID: 500-228026-29
Date Collected: 01/09/23 16:15
Matrix: Water
Date Received: 01/13/23 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			01/16/23 16:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 16:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 16:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 16:45	1
Trichloroethene	**0.56**		0.50	0.16	ug/L			01/16/23 16:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 16:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 16:45	1
1,2,4-Trimethylbenzene	**1.0**	**B**	1.0	0.36	ug/L			01/16/23 16:45	1
1,3,5-Trimethylbenzene	**0.87**	**J B**	1.0	0.25	ug/L			01/16/23 16:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 16:45	1
Xylenes, Total	**0.36**	**J**	1.0	0.22	ug/L			01/16/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*01/16/23 16:45*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*01/16/23 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*01/16/23 16:45*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 16:45*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-01
Lab Sample ID: 500-228026-30
Date Collected: 01/09/23 16:25
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.5		5.2	2.5	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluoropentanoic acid (PFPeA)	<0.51		2.1	0.51	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorohexanoic acid (PFHxA)	<0.60		2.1	0.60	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluoroheptanoic acid (PFHpA)	<0.26		2.1	0.26	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorooctanoic acid (PFOA)	<0.88		2.1	0.88	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorononanoic acid (PFNA)	<0.28		2.1	0.28	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorodecanoic acid (PFDA)	<0.32		2.1	0.32	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.1	1.1	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorododecanoic acid (PFDoA)	<0.57		2.1	0.57	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.1	1.3	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.76		2.1	0.76	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.21		2.1	0.21	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.31		2.1	0.31	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.59		2.1	0.59	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.20		2.1	0.20	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.56		2.1	0.56	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorononanesulfonic acid (PFNS)	<0.38		2.1	0.38	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.33		2.1	0.33	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorododecanesulfonic acid (PFDoS)	<1.0		2.1	1.0	ng/L		01/18/23 06:27	01/21/23 09:50	1
Perfluorooctanesulfonamide (FOSA)	<1.0		2.1	1.0	ng/L		01/18/23 06:27	01/21/23 09:50	1
NEtFOSA	<0.90		2.1	0.90	ng/L		01/18/23 06:27	01/21/23 09:50	1
NMeFOSA	<0.45		2.1	0.45	ng/L		01/18/23 06:27	01/21/23 09:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.2	1.2	ng/L		01/18/23 06:27	01/21/23 09:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.2	1.3	ng/L		01/18/23 06:27	01/21/23 09:50	1
NMeFOSE	<1.5		4.1	1.5	ng/L		01/18/23 06:27	01/21/23 09:50	1
NEtFOSE	<0.88		2.1	0.88	ng/L		01/18/23 06:27	01/21/23 09:50	1
4:2 FTS	<0.25		2.1	0.25	ng/L		01/18/23 06:27	01/21/23 09:50	1
6:2 FTS	<2.6		5.2	2.6	ng/L		01/18/23 06:27	01/21/23 09:50	1
8:2 FTS	<0.48		2.1	0.48	ng/L		01/18/23 06:27	01/21/23 09:50	1
DONA	<0.41		2.1	0.41	ng/L		01/18/23 06:27	01/21/23 09:50	1
HFPO-DA (GenX)	<1.6		4.1	1.6	ng/L		01/18/23 06:27	01/21/23 09:50	1
F-53B Major	<0.25		2.1	0.25	ng/L		01/18/23 06:27	01/21/23 09:50	1
F-53B Minor	<0.33		2.1	0.33	ng/L		01/18/23 06:27	01/21/23 09:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C2 PFHxA	*114*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C4 PFHpA	*115*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C4 PFOA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C5 PFNA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C2 PFDA	*111*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C2 PFUnA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C2 PFDoA	*95*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C2 PFTeDA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*
13C3 PFBS	*124*		*25 - 150*	*01/18/23 06:27*	*01/21/23 09:50*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-01
Lab Sample ID: 500-228026-30
Date Collected: 01/09/23 16:25
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	116		25 - 150	01/18/23 06:27	01/21/23 09:50	1
13C4 PFOS	111		25 - 150	01/18/23 06:27	01/21/23 09:50	1
13C8 FOSA	119		10 - 150	01/18/23 06:27	01/21/23 09:50	1
d3-NMeFOSAA	98		25 - 150	01/18/23 06:27	01/21/23 09:50	1
d5-NEtFOSAA	104		25 - 150	01/18/23 06:27	01/21/23 09:50	1
d-N-MeFOSA-M	96		10 - 150	01/18/23 06:27	01/21/23 09:50	1
d-N-EtFOSA-M	102		10 - 150	01/18/23 06:27	01/21/23 09:50	1
d7-N-MeFOSE-M	103		10 - 150	01/18/23 06:27	01/21/23 09:50	1
d9-N-EtFOSE-M	108		10 - 150	01/18/23 06:27	01/21/23 09:50	1
M2-4:2 FTS	94		25 - 150	01/18/23 06:27	01/21/23 09:50	1
M2-6:2 FTS	85		25 - 150	01/18/23 06:27	01/21/23 09:50	1
M2-8:2 FTS	89		25 - 150	01/18/23 06:27	01/21/23 09:50	1
13C3 HFPO-DA	123		25 - 150	01/18/23 06:27	01/21/23 09:50	1
13C2 10:2 FTS	70		25 - 150	01/18/23 06:27	01/21/23 09:50	1

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

Job ID: 500-228026-1

Client Sample ID: EB-01
Date Collected: 01/09/23 16:30
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-31
Matrix: Water

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			01/16/23 17:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 17:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 17:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 17:11	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 17:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 17:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 17:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 17:11	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 17:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 17:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 17:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 17:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 17:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 17:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 17:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 17:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 17:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 17:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 17:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 17:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 17:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 17:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 17:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 17:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 17:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 17:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 17:11	1
Isopropylbenzene	**0.67**	**J**	1.0	0.39	ug/L			01/16/23 17:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 17:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 17:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
Naphthalene	**0.78**	**J**	1.0	0.34	ug/L			01/16/23 17:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
N-Propylbenzene	**0.62**	**J**	1.0	0.41	ug/L			01/16/23 17:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 17:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:11	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 17:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 17:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 17:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 17:11	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 17:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 17:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 17:11	1

Client Sample ID: EB-01
Date Collected: 01/09/23 16:30
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-31
Matrix: Water

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			01/16/23 17:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 17:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 17:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 17:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 17:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 17:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 17:11	1
1,2,4-Trimethylbenzene	**0.95**	**J B**	1.0	0.36	ug/L			01/16/23 17:11	1
1,3,5-Trimethylbenzene	**0.83**	**J B**	1.0	0.25	ug/L			01/16/23 17:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 17:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*01/16/23 17:11*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*01/16/23 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/16/23 17:11*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*01/16/23 17:11*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/18/23 06:27	01/21/23 10:00	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		01/18/23 06:27	01/21/23 10:00	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/18/23 06:27	01/21/23 10:00	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:27	01/21/23 10:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/18/23 06:27	01/21/23 10:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:27	01/21/23 10:00	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:27	01/21/23 10:00	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/18/23 06:27	01/21/23 10:00	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-01
Lab Sample ID: 500-228026-31
Date Collected: 01/09/23 16:30
Matrix: Water
Date Received: 01/13/23 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		01/18/23 06:27	01/21/23 10:00	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:27	01/21/23 10:00	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:27	01/21/23 10:00	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:27	01/21/23 10:00	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:27	01/21/23 10:00	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 10:00	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 10:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C5 PFPeA	*115*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 PFHxA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C4 PFHpA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C4 PFOA	*103*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C5 PFNA	*112*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 PFDA	*114*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 PFUnA	*119*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 PFDoA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 PFTeDA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C3 PFBS	*117*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
18O2 PFHxS	*113*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C4 PFOS	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C8 FOSA	*125*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d3-NMeFOSAA	*118*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d5-NEtFOSAA	*121*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d-N-MeFOSA-M	*86*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d-N-EtFOSA-M	*94*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d7-N-MeFOSE-M	*112*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
d9-N-EtFOSE-M	*110*		*10 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
M2-4:2 FTS	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
M2-6:2 FTS	*83*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C3 HFPO-DA	*124*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*
13C2 10:2 FTS	*68*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:00*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-228026-32

Date Collected: 01/10/23 07:55
Matrix: Water
Date Received: 01/13/23 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			01/16/23 17:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 17:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 17:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 17:37	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 17:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 17:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 17:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 17:37	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 17:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 17:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 17:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 17:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 17:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 17:37	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 17:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 17:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 17:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 17:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 17:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 17:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 17:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 17:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 17:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 17:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 17:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 17:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 17:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 17:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 17:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 17:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 17:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 17:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:37	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 17:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 17:37	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 17:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 17:37	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 17:37	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 17:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 17:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 17:37	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-228026-32
Date Collected: 01/10/23 07:55
Matrix: Water
Date Received: 01/13/23 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			01/16/23 17:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 17:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 17:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 17:37	1
Trichloroethene	**0.85**		0.50	0.16	ug/L			01/16/23 17:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 17:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 17:37	1
1,2,4-Trimethylbenzene	**0.84**	**J B**	1.0	0.36	ug/L			01/16/23 17:37	1
1,3,5-Trimethylbenzene	**0.81**	**J B**	1.0	0.25	ug/L			01/16/23 17:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 17:37	1
Xylenes, Total	**0.33**	**J**	1.0	0.22	ug/L			01/16/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*01/16/23 17:37*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*01/16/23 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*01/16/23 17:37*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*01/16/23 17:37*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-17
Lab Sample ID: 500-228026-33
Date Collected: 01/10/23 08:35
Matrix: Water
Date Received: 01/13/23 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			01/16/23 18:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 18:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 18:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 18:03	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 18:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 18:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 18:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 18:03	1
Chloroform	**0.38**	**J**	2.0	0.37	ug/L			01/16/23 18:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 18:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 18:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 18:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 18:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 18:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 18:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 18:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 18:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 18:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 18:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 18:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 18:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 18:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 18:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 18:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 18:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 18:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 18:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 18:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 18:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
Naphthalene	**0.70**	**J**	1.0	0.34	ug/L			01/16/23 18:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 18:03	1
p-Isopropyltoluene	**0.71**	**J**	1.0	0.36	ug/L			01/16/23 18:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:03	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 18:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 18:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 18:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 18:03	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 18:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 18:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 18:03	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-17
Lab Sample ID: 500-228026-33
Date Collected: 01/10/23 08:35
Matrix: Water
Date Received: 01/13/23 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			01/16/23 18:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 18:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 18:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 18:03	1
Trichloroethene	**6.1**		0.50	0.16	ug/L			01/16/23 18:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 18:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 18:03	1
1,2,4-Trimethylbenzene	**0.79**	**J B**	1.0	0.36	ug/L			01/16/23 18:03	1
1,3,5-Trimethylbenzene	**0.78**	**J B**	1.0	0.25	ug/L			01/16/23 18:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 18:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*01/16/23 18:03*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*01/16/23 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*01/16/23 18:03*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*01/16/23 18:03*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-214
Lab Sample ID: 500-228026-34
Date Collected: 01/10/23 09:25
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.2**	**J**	4.9	2.3	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorohexanoic acid (PFHxA)	**1.9**	**J**	2.0	0.57	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluoroheptanoic acid (PFHpA)	**2.4**		2.0	0.24	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorooctanoic acid (PFOA)	**51**		2.0	0.83	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		01/18/23 06:27	01/21/23 10:11	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		01/18/23 06:27	01/21/23 10:11	1
NEtFOSA	<0.85		2.0	0.85	ng/L		01/18/23 06:27	01/21/23 10:11	1
NMeFOSA	<0.42		2.0	0.42	ng/L		01/18/23 06:27	01/21/23 10:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/18/23 06:27	01/21/23 10:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/18/23 06:27	01/21/23 10:11	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/18/23 06:27	01/21/23 10:11	1
NEtFOSE	<0.83		2.0	0.83	ng/L		01/18/23 06:27	01/21/23 10:11	1
4:2 FTS	<0.23		2.0	0.23	ng/L		01/18/23 06:27	01/21/23 10:11	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/18/23 06:27	01/21/23 10:11	1
8:2 FTS	<0.45		2.0	0.45	ng/L		01/18/23 06:27	01/21/23 10:11	1
DONA	<0.39		2.0	0.39	ng/L		01/18/23 06:27	01/21/23 10:11	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/18/23 06:27	01/21/23 10:11	1
F-53B Major	<0.23		2.0	0.23	ng/L		01/18/23 06:27	01/21/23 10:11	1
F-53B Minor	<0.31		2.0	0.31	ng/L		01/18/23 06:27	01/21/23 10:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*74*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C5 PFPeA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C2 PFHxA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C4 PFHpA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C4 PFOA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C5 PFNA	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C2 PFDA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C2 PFUnA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C2 PFDoA	*88*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*
13C3 PFBS	*124*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:11*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-214
Lab Sample ID: 500-228026-34
Date Collected: 01/10/23 09:25
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		25 - 150	01/18/23 06:27	01/21/23 10:11	1
13C4 PFOS	103		25 - 150	01/18/23 06:27	01/21/23 10:11	1
13C8 FOSA	119		10 - 150	01/18/23 06:27	01/21/23 10:11	1
d3-NMeFOSAA	95		25 - 150	01/18/23 06:27	01/21/23 10:11	1
d5-NEtFOSAA	106		25 - 150	01/18/23 06:27	01/21/23 10:11	1
d-N-MeFOSA-M	94		10 - 150	01/18/23 06:27	01/21/23 10:11	1
d-N-EtFOSA-M	94		10 - 150	01/18/23 06:27	01/21/23 10:11	1
d7-N-MeFOSE-M	85		10 - 150	01/18/23 06:27	01/21/23 10:11	1
d9-N-EtFOSE-M	84		10 - 150	01/18/23 06:27	01/21/23 10:11	1
M2-4:2 FTS	97		25 - 150	01/18/23 06:27	01/21/23 10:11	1
M2-6:2 FTS	86		25 - 150	01/18/23 06:27	01/21/23 10:11	1
M2-8:2 FTS	81		25 - 150	01/18/23 06:27	01/21/23 10:11	1
13C3 HFPO-DA	125		25 - 150	01/18/23 06:27	01/21/23 10:11	1
13C2 10:2 FTS	81		25 - 150	01/18/23 06:27	01/21/23 10:11	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-8
Lab Sample ID: 500-228026-35
Date Collected: 01/10/23 10:25
Matrix: Water
Date Received: 01/13/23 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			01/16/23 18:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 18:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 18:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 18:30	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 18:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 18:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 18:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 18:30	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 18:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 18:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 18:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 18:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 18:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 18:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 18:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 18:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 18:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 18:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 18:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 18:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 18:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 18:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 18:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 18:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 18:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 18:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 18:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 18:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 18:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 18:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 18:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 18:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:30	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 18:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 18:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 18:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 18:30	1
Tetrachloroethene	**0.93**	**J**	1.0	0.37	ug/L			01/16/23 18:30	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 18:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 18:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 18:30	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-8
Lab Sample ID: 500-228026-35
Date Collected: 01/10/23 10:25
Matrix: Water
Date Received: 01/13/23 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			01/16/23 18:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 18:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 18:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 18:30	1
Trichloroethene	**1.4**		0.50	0.16	ug/L			01/16/23 18:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 18:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 18:30	1
1,2,4-Trimethylbenzene	**0.78**	**J B**	1.0	0.36	ug/L			01/16/23 18:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/16/23 18:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 18:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*01/16/23 18:30*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*01/16/23 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*01/16/23 18:30*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/16/23 18:30*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-3
Lab Sample ID: 500-228026-36
Date Collected: 01/10/23 11:30
Matrix: Water
Date Received: 01/13/23 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			01/17/23 14:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 14:26	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 14:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 14:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 14:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 14:26	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 14:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 14:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 14:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 14:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 14:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 14:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 14:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 14:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 14:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 14:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 14:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 14:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 14:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 14:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 14:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 14:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 14:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 14:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 14:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 14:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 14:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:26	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 14:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 14:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 14:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 14:26	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 14:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 14:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-3
Lab Sample ID: 500-228026-36
Date Collected: 01/10/23 11:30
Matrix: Water
Date Received: 01/13/23 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			01/17/23 14:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 14:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 14:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 14:26	1
Trichloroethene	**4.6**		0.50	0.16	ug/L			01/17/23 14:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 14:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 14:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 14:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*01/17/23 14:26*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*01/17/23 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*01/17/23 14:26*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*01/17/23 14:26*	*1*

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

Job ID: 500-228026-1

Client Sample ID: MW-37
Date Collected: 01/10/23 12:55
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-37
Matrix: Water

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			01/17/23 14:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 14:49	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 14:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 14:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 14:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 14:49	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 14:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 14:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 14:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 14:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 14:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 14:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 14:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 14:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 14:49	1
1,2-Dichlorobenzene	**0.82**	**J**	1.0	0.33	ug/L			01/17/23 14:49	1
1,3-Dichlorobenzene	**0.83**	**J**	1.0	0.40	ug/L			01/17/23 14:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 14:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 14:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 14:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 14:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 14:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 14:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 14:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 14:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 14:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 14:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 14:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:49	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 14:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 14:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 14:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 14:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 14:49	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 14:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 14:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-37
Lab Sample ID: 500-228026-37
Date Collected: 01/10/23 12:55
Matrix: Water
Date Received: 01/13/23 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	**4.0**		1.0	0.46	ug/L			01/17/23 14:49	1
1,2,4-Trichlorobenzene	**4.1**		1.0	0.34	ug/L			01/17/23 14:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 14:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 14:49	1
Trichloroethene	**11**		0.50	0.16	ug/L			01/17/23 14:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 14:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 14:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 14:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 14:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 14:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*01/17/23 14:49*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*01/17/23 14:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*01/17/23 14:49*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*01/17/23 14:49*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19
Lab Sample ID: 500-228026-38
Date Collected: 01/10/23 13:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 15:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 15:12	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 15:12	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 15:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 15:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 15:12	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 15:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 15:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 15:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 15:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 15:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 15:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 15:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 15:12	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 15:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 15:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 15:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 15:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 15:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 15:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 15:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 15:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 15:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 15:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 15:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 15:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 15:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:12	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 15:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:12	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 15:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 15:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 15:12	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 15:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 15:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-19
Lab Sample ID: 500-228026-38
Date Collected: 01/10/23 13:40
Matrix: Water
Date Received: 01/13/23 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	**0.57**	**J**	1.0	0.46	ug/L			01/17/23 15:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 15:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 15:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 15:12	1
Trichloroethene	**4.8**		0.50	0.16	ug/L			01/17/23 15:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:12	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 15:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 15:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 15:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 15:12*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*01/17/23 15:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*01/17/23 15:12*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*01/17/23 15:12*	*1*

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

Job ID: 500-228026-1

Client Sample ID: MW-48

Date Collected: 01/10/23 14:45
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-39

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.9**		4.7	2.2	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluoropentanoic acid (PFPeA)	**3.2**		1.9	0.46	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorohexanoic acid (PFHxA)	**12**		1.9	0.54	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluoroheptanoic acid (PFHpA)	**42**		1.9	0.23	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorononanoic acid (PFNA)	**1.4**	**J**	1.9	0.25	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**		1.9	0.19	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorohexanesulfonic acid (PFHxS)	**1.4**	**J**	1.9	0.53	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorooctanesulfonic acid (PFOS)	**8.2**		1.9	0.50	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		01/18/23 06:27	01/21/23 10:21	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/18/23 06:27	01/21/23 10:21	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/18/23 06:27	01/21/23 10:21	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/18/23 06:27	01/21/23 10:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/18/23 06:27	01/21/23 10:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/18/23 06:27	01/21/23 10:21	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/18/23 06:27	01/21/23 10:21	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/18/23 06:27	01/21/23 10:21	1
4:2 FTS	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 10:21	1
6:2 FTS	<2.3		4.7	2.3	ng/L		01/18/23 06:27	01/21/23 10:21	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/18/23 06:27	01/21/23 10:21	1
DONA	<0.37		1.9	0.37	ng/L		01/18/23 06:27	01/21/23 10:21	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/18/23 06:27	01/21/23 10:21	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/18/23 06:27	01/21/23 10:21	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:27	01/21/23 10:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C5 PFPeA	*98*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C2 PFHxA	*104*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C4 PFHpA	*109*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C5 PFNA	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C2 PFDA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C2 PFUnA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C2 PFDoA	*96*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C2 PFTeDA	*89*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*
13C3 PFBS	*139*		*25 - 150*	*01/18/23 06:27*	*01/21/23 10:21*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-48
Lab Sample ID: 500-228026-39
Date Collected: 01/10/23 14:45
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	109		25 - 150	01/18/23 06:27	01/21/23 10:21	1
13C4 PFOS	104		25 - 150	01/18/23 06:27	01/21/23 10:21	1
13C8 FOSA	116		10 - 150	01/18/23 06:27	01/21/23 10:21	1
d3-NMeFOSAA	104		25 - 150	01/18/23 06:27	01/21/23 10:21	1
d5-NEtFOSAA	104		25 - 150	01/18/23 06:27	01/21/23 10:21	1
d-N-MeFOSA-M	88		10 - 150	01/18/23 06:27	01/21/23 10:21	1
d-N-EtFOSA-M	95		10 - 150	01/18/23 06:27	01/21/23 10:21	1
d7-N-MeFOSE-M	93		10 - 150	01/18/23 06:27	01/21/23 10:21	1
d9-N-EtFOSE-M	91		10 - 150	01/18/23 06:27	01/21/23 10:21	1
M2-4:2 FTS	122		25 - 150	01/18/23 06:27	01/21/23 10:21	1
M2-6:2 FTS	70		25 - 150	01/18/23 06:27	01/21/23 10:21	1
M2-8:2 FTS	79		25 - 150	01/18/23 06:27	01/21/23 10:21	1
13C3 HFPO-DA	134		25 - 150	01/18/23 06:27	01/21/23 10:21	1
13C2 10:2 FTS	68		25 - 150	01/18/23 06:27	01/21/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1100		19	7.9	ng/L		01/18/23 06:27	01/23/23 17:20	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	97		25 - 150	01/18/23 06:27	01/23/23 17:20	10

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

Job ID: 500-228026-1

Client Sample ID: MW-9
Date Collected: 01/10/23 15:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-40
Matrix: Water

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			01/17/23 15:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 15:35	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 15:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 15:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 15:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 15:35	1
Chloroform	**0.66**	**J**	2.0	0.37	ug/L			01/17/23 15:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 15:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 15:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 15:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 15:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 15:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 15:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 15:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 15:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 15:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 15:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 15:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 15:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 15:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 15:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 15:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 15:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 15:35	1
Methylene Chloride	**4.4**	**J**	5.0	1.6	ug/L			01/17/23 15:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 15:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 15:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:35	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 15:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 15:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 15:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 15:35	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 15:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 15:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9
Lab Sample ID: 500-228026-40
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 15:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 15:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 15:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 15:35	1
Trichloroethene	**6.8**		0.50	0.16	ug/L			01/17/23 15:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 15:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 15:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 15:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 15:35*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 120*		*01/17/23 15:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*01/17/23 15:35*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*01/17/23 15:35*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1600**		25	12	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluoropentanoic acid (PFPeA)	**430**		10	2.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorohexanoic acid (PFHxA)	<2.9		10	2.9	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluoroheptanoic acid (PFHpA)	**160**		10	1.3	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorotridecanoic acid (PFTriA)	<6.5		10	6.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		10	1.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.9		10	2.9	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorooctanesulfonic acid (PFOS)	<2.7		10	2.7	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		01/20/23 05:42	01/25/23 13:49	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		01/20/23 05:42	01/25/23 13:49	1
NEtFOSA	<4.4		10	4.4	ng/L		01/20/23 05:42	01/25/23 13:49	1
NMeFOSA	<2.2		10	2.2	ng/L		01/20/23 05:42	01/25/23 13:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<6.0		25	6.0	ng/L		01/20/23 05:42	01/25/23 13:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<6.5		25	6.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
NMeFOSE	<7.0		20	7.0	ng/L		01/20/23 05:42	01/25/23 13:49	1
NEtFOSE	<4.3		10	4.3	ng/L		01/20/23 05:42	01/25/23 13:49	1
4:2 FTS	<1.2		10	1.2	ng/L		01/20/23 05:42	01/25/23 13:49	1

Client Sample ID: MW-9
Date Collected: 01/10/23 15:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-40
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	<13		25	13	ng/L		01/20/23 05:42	01/25/23 13:49	1
8:2 FTS	<2.3		10	2.3	ng/L		01/20/23 05:42	01/25/23 13:49	1
DONA	<2.0		10	2.0	ng/L		01/20/23 05:42	01/25/23 13:49	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		01/20/23 05:42	01/25/23 13:49	1
F-53B Major	<1.2		10	1.2	ng/L		01/20/23 05:42	01/25/23 13:49	1
F-53B Minor	<1.6		10	1.6	ng/L		01/20/23 05:42	01/25/23 13:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*31*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C5 PFPeA	*44*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 PFHxA	*72*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C4 PFHpA	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C4 PFOA	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C5 PFNA	*122*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 PFDA	*165*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 PFUnA	*175*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 PFDoA	*158*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 PFTeDA	*139*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C3 PFBS	*148*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
18O2 PFHxS	*141*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C4 PFOS	*181*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C8 FOSA	*135*		*10 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d3-NMeFOSAA	*96*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d5-NEtFOSAA	*117*		*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d-N-MeFOSA-M	*141*		*10 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d-N-EtFOSA-M	*162*	**5+*	*10 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d7-N-MeFOSE-M	*148*		*10 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
d9-N-EtFOSE-M	*149*		*10 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
M2-4:2 FTS	*182*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
M2-6:2 FTS	*281*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
M2-8:2 FTS	*459*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C3 HFPO-DA	*174*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*
13C2 10:2 FTS	*333*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/25/23 13:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**2900**		100	43	ng/L		01/20/23 05:42	01/27/23 14:38	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFOA	*94*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:38*	*10*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9 DUP
Lab Sample ID: 500-228026-41
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 15:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 15:58	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 15:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 15:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 15:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 15:58	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 15:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 15:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 15:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 15:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 15:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 15:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 15:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 15:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 15:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 15:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 15:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 15:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 15:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 15:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 15:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 15:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 15:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 15:58	1
Methylene Chloride	**4.7**	**J**	5.0	1.6	ug/L			01/17/23 15:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 15:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 15:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:58	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 15:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 15:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 15:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 15:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 15:58	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 15:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 15:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9 DUP
Lab Sample ID: 500-228026-41
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 15:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 15:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 15:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 15:58	1
Trichloroethene	**7.1**		0.50	0.16	ug/L			01/17/23 15:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 15:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 15:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 15:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 15:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 15:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*01/17/23 15:58*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*01/17/23 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*01/17/23 15:58*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*01/17/23 15:58*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**780**		250	120	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluoropentanoic acid (PFPeA)	**470**		100	25	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorohexanoic acid (PFHxA)	<29		100	29	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluoroheptanoic acid (PFHpA)	**140**		100	13	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorooctanoic acid (PFOA)	**2700**		100	43	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorononanoic acid (PFNA)	<14		100	14	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorodecanoic acid (PFDA)	<16		100	16	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluoroundecanoic acid (PFUnA)	<55		100	55	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorododecanoic acid (PFDoA)	<28		100	28	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorotridecanoic acid (PFTriA)	<65		100	65	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorotetradecanoic acid (PFTeA)	<37		100	37	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorobutanesulfonic acid (PFBS)	<10		100	10	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluoropentanesulfonic acid (PFPeS)	<15		100	15	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorohexanesulfonic acid (PFHxS)	<29		100	29	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluoroheptanesulfonic acid (PFHpS)	<9.5		100	9.5	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorooctanesulfonic acid (PFOS)	<27		100	27	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorononanesulfonic acid (PFNS)	<19		100	19	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorodecanesulfonic acid (PFDS)	<16		100	16	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorododecanesulfonic acid (PFDoS)	<49		100	49	ng/L		01/20/23 05:42	01/27/23 14:49	10
Perfluorooctanesulfonamide (FOSA)	<49		100	49	ng/L		01/20/23 05:42	01/27/23 14:49	10
NEtFOSA	<44		100	44	ng/L		01/20/23 05:42	01/27/23 14:49	10
NMeFOSA	<22		100	22	ng/L		01/20/23 05:42	01/27/23 14:49	10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<60		250	60	ng/L		01/20/23 05:42	01/27/23 14:49	10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<65		250	65	ng/L		01/20/23 05:42	01/27/23 14:49	10
NMeFOSE	<70		200	70	ng/L		01/20/23 05:42	01/27/23 14:49	10
NEtFOSE	<43		100	43	ng/L		01/20/23 05:42	01/27/23 14:49	10

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9 DUP
Lab Sample ID: 500-228026-41
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<12		100	12	ng/L		01/20/23 05:42	01/27/23 14:49	10
6:2 FTS	<130		250	130	ng/L		01/20/23 05:42	01/27/23 14:49	10
8:2 FTS	<23		100	23	ng/L		01/20/23 05:42	01/27/23 14:49	10
DONA	<20		100	20	ng/L		01/20/23 05:42	01/27/23 14:49	10
HFPO-DA (GenX)	<75		200	75	ng/L		01/20/23 05:42	01/27/23 14:49	10
F-53B Major	<12		100	12	ng/L		01/20/23 05:42	01/27/23 14:49	10
F-53B Minor	<16		100	16	ng/L		01/20/23 05:42	01/27/23 14:49	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*51*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C5 PFPeA	*63*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 PFHxA	*99*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C4 PFHpA	*102*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C4 PFOA	*103*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C5 PFNA	*117*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 PFDA	*130*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 PFUnA	*120*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 PFDoA	*108*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 PFTeDA	*87*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C3 PFBS	*102*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
18O2 PFHxS	*91*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C4 PFOS	*112*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C8 FOSA	*115*		*10 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d3-NMeFOSAA	*102*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d5-NEtFOSAA	*113*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d-N-MeFOSA-M	*98*		*10 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d-N-EtFOSA-M	*95*		*10 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d7-N-MeFOSE-M	*84*		*10 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
d9-N-EtFOSE-M	*85*		*10 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
M2-4:2 FTS	*204*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
M2-6:2 FTS	*180*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
M2-8:2 FTS	*197*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C3 HFPO-DA	*153*	**5+*	*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*
13C2 10:2 FTS	*146*		*25 - 150*	*01/20/23 05:42*	*01/27/23 14:49*	*10*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-03
Lab Sample ID: 500-228026-42
Date Collected: 01/10/23 16:10
Matrix: Water
Date Received: 01/13/23 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			01/17/23 16:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 16:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 16:21	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 16:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 16:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 16:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 16:21	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 16:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 16:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 16:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 16:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 16:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 16:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 16:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 16:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 16:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 16:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 16:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 16:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 16:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 16:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 16:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 16:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 16:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 16:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 16:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 16:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 16:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 16:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 16:21	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 16:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 16:21	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 16:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 16:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 16:21	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 16:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 16:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1

Client Sample ID: EB-03
Lab Sample ID: 500-228026-42
Date Collected: 01/10/23 16:10
Matrix: Water
Date Received: 01/13/23 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			01/17/23 16:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 16:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 16:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 16:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 16:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 16:21	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 16:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 16:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 16:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 16:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 16:21*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*01/17/23 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*01/17/23 16:21*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*01/17/23 16:21*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/20/23 05:42	01/25/23 14:10	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		01/20/23 05:42	01/25/23 14:10	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/20/23 05:42	01/25/23 14:10	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/20/23 05:42	01/25/23 14:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/20/23 05:42	01/25/23 14:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/20/23 05:42	01/25/23 14:10	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/20/23 05:42	01/25/23 14:10	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 14:10	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-03
Lab Sample ID: 500-228026-42
Date Collected: 01/10/23 16:10
Matrix: Water
Date Received: 01/13/23 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		01/20/23 05:42	01/25/23 14:10	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/20/23 05:42	01/25/23 14:10	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/20/23 05:42	01/25/23 14:10	1
DONA	<0.38		1.9	0.38	ng/L		01/20/23 05:42	01/25/23 14:10	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/20/23 05:42	01/25/23 14:10	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 14:10	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 14:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C5 PFPeA	*105*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 PFHxA	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C4 PFHpA	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C4 PFOA	*99*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C5 PFNA	*106*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 PFDA	*104*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 PFUnA	*105*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 PFDoA	*89*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 PFTeDA	*90*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C3 PFBS	*109*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
18O2 PFHxS	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C4 PFOS	*99*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C8 FOSA	*98*		*10 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d3-NMeFOSAA	*83*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d5-NEtFOSAA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d-N-MeFOSA-M	*79*		*10 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d-N-EtFOSA-M	*89*		*10 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d7-N-MeFOSE-M	*97*		*10 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
d9-N-EtFOSE-M	*95*		*10 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
M2-4:2 FTS	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C3 HFPO-DA	*132*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*
13C2 10:2 FTS	*103*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:10*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-03
Lab Sample ID: 500-228026-43
Date Collected: 01/10/23 16:15
Matrix: Water
Date Received: 01/13/23 09:30

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		01/20/23 05:42	01/25/23 14:20	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		01/20/23 05:42	01/25/23 14:20	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		01/20/23 05:42	01/25/23 14:20	1
NEtFOSA	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 14:20	1
NMeFOSA	<0.40		1.9	0.40	ng/L		01/20/23 05:42	01/25/23 14:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		01/20/23 05:42	01/25/23 14:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		01/20/23 05:42	01/25/23 14:20	1
NMeFOSE	<1.3		3.7	1.3	ng/L		01/20/23 05:42	01/25/23 14:20	1
NEtFOSE	<0.79		1.9	0.79	ng/L		01/20/23 05:42	01/25/23 14:20	1
4:2 FTS	<0.22		1.9	0.22	ng/L		01/20/23 05:42	01/25/23 14:20	1
6:2 FTS	<2.3		4.6	2.3	ng/L		01/20/23 05:42	01/25/23 14:20	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/20/23 05:42	01/25/23 14:20	1
DONA	<0.37		1.9	0.37	ng/L		01/20/23 05:42	01/25/23 14:20	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		01/20/23 05:42	01/25/23 14:20	1
F-53B Major	<0.22		1.9	0.22	ng/L		01/20/23 05:42	01/25/23 14:20	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 14:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C2 PFHxA	*102*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C4 PFHpA	*108*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C4 PFOA	*99*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C5 PFNA	*104*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C2 PFDA	*102*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C2 PFUnA	*105*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C2 PFDoA	*85*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*
13C3 PFBS	*102*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:20*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-03
Lab Sample ID: 500-228026-43
Date Collected: 01/10/23 16:15
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		25 - 150	01/20/23 05:42	01/25/23 14:20	1
13C4 PFOS	99		25 - 150	01/20/23 05:42	01/25/23 14:20	1
13C8 FOSA	100		10 - 150	01/20/23 05:42	01/25/23 14:20	1
d3-NMeFOSAA	94		25 - 150	01/20/23 05:42	01/25/23 14:20	1
d5-NEtFOSAA	92		25 - 150	01/20/23 05:42	01/25/23 14:20	1
d-N-MeFOSA-M	76		10 - 150	01/20/23 05:42	01/25/23 14:20	1
d-N-EtFOSA-M	84		10 - 150	01/20/23 05:42	01/25/23 14:20	1
d7-N-MeFOSE-M	94		10 - 150	01/20/23 05:42	01/25/23 14:20	1
d9-N-EtFOSE-M	94		10 - 150	01/20/23 05:42	01/25/23 14:20	1
M2-4:2 FTS	98		25 - 150	01/20/23 05:42	01/25/23 14:20	1
M2-6:2 FTS	110		25 - 150	01/20/23 05:42	01/25/23 14:20	1
M2-8:2 FTS	123		25 - 150	01/20/23 05:42	01/25/23 14:20	1
13C3 HFPO-DA	124		25 - 150	01/20/23 05:42	01/25/23 14:20	1
13C2 10:2 FTS	110		25 - 150	01/20/23 05:42	01/25/23 14:20	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-200
Lab Sample ID: 500-228026-44
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluoroheptanoic acid (PFHpA)	**1.5**	**J**	1.9	0.24	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorooctanoic acid (PFOA)	**5.5**		1.9	0.83	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorononanoic acid (PFNA)	**0.26**	**J**	1.9	0.26	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorododecanoic acid (PFDoA)	<0.54		1.9	0.54	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		1.9	0.53	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		01/20/23 05:42	01/26/23 21:03	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		01/20/23 05:42	01/26/23 21:03	1
NEtFOSA	<0.85		1.9	0.85	ng/L		01/20/23 05:42	01/26/23 21:03	1
NMeFOSA	<0.42		1.9	0.42	ng/L		01/20/23 05:42	01/26/23 21:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/20/23 05:42	01/26/23 21:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/20/23 05:42	01/26/23 21:03	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/20/23 05:42	01/26/23 21:03	1
NEtFOSE	<0.83		1.9	0.83	ng/L		01/20/23 05:42	01/26/23 21:03	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/26/23 21:03	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/20/23 05:42	01/26/23 21:03	1
8:2 FTS	<0.45		1.9	0.45	ng/L		01/20/23 05:42	01/26/23 21:03	1
DONA	<0.39		1.9	0.39	ng/L		01/20/23 05:42	01/26/23 21:03	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/20/23 05:42	01/26/23 21:03	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/26/23 21:03	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/26/23 21:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C5 PFPeA	*104*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C2 PFHxA	*111*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C4 PFHpA	*125*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C4 PFOA	*105*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C5 PFNA	*111*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C2 PFDA	*102*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C2 PFUnA	*102*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C2 PFDoA	*89*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*
13C3 PFBS	*133*		*25 - 150*	*01/20/23 05:42*	*01/26/23 21:03*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-200
Lab Sample ID: 500-228026-44
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150	01/20/23 05:42	01/26/23 21:03	1
13C4 PFOS	104		25 - 150	01/20/23 05:42	01/26/23 21:03	1
13C8 FOSA	113		10 - 150	01/20/23 05:42	01/26/23 21:03	1
d3-NMeFOSAA	84		25 - 150	01/20/23 05:42	01/26/23 21:03	1
d5-NEtFOSAA	88		25 - 150	01/20/23 05:42	01/26/23 21:03	1
d-N-MeFOSA-M	89		10 - 150	01/20/23 05:42	01/26/23 21:03	1
d-N-EtFOSA-M	94		10 - 150	01/20/23 05:42	01/26/23 21:03	1
d7-N-MeFOSE-M	84		10 - 150	01/20/23 05:42	01/26/23 21:03	1
d9-N-EtFOSE-M	82		10 - 150	01/20/23 05:42	01/26/23 21:03	1
M2-4:2 FTS	102		25 - 150	01/20/23 05:42	01/26/23 21:03	1
M2-6:2 FTS	109		25 - 150	01/20/23 05:42	01/26/23 21:03	1
M2-8:2 FTS	101		25 - 150	01/20/23 05:42	01/26/23 21:03	1
13C3 HFPO-DA	151	*5+	25 - 150	01/20/23 05:42	01/26/23 21:03	1
13C2 10:2 FTS	74		25 - 150	01/20/23 05:42	01/26/23 21:03	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200
Lab Sample ID: 500-228026-45
Date Collected: 01/11/23 08:40
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.4**		4.8	2.3	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluoropentanoic acid (PFPeA)	**8.2**		1.9	0.47	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorohexanoic acid (PFHxA)	**6.2**		1.9	0.55	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluoroheptanoic acid (PFHpA)	**5.3**		1.9	0.24	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorooctanoic acid (PFOA)	**110**		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorononanoic acid (PFNA)	**0.32**	**J**	1.9	0.26	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorobutanesulfonic acid (PFBS)	**12**		1.9	0.19	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluoropentanesulfonic acid (PFPeS)	**0.34**	**J**	1.9	0.29	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.9	0.54	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorooctanesulfonic acid (PFOS)	**5.4**	**I**	1.9	0.52	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/20/23 05:42	01/25/23 14:40	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/20/23 05:42	01/25/23 14:40	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/20/23 05:42	01/25/23 14:40	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/20/23 05:42	01/25/23 14:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/20/23 05:42	01/25/23 14:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/20/23 05:42	01/25/23 14:40	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/20/23 05:42	01/25/23 14:40	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 14:40	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 14:40	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/20/23 05:42	01/25/23 14:40	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/20/23 05:42	01/25/23 14:40	1
DONA	<0.38		1.9	0.38	ng/L		01/20/23 05:42	01/25/23 14:40	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/20/23 05:42	01/25/23 14:40	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 14:40	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 14:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C5 PFPeA	*114*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C2 PFHxA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C4 PFHpA	*107*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C4 PFOA	*100*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C5 PFNA	*109*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C2 PFDA	*99*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C2 PFUnA	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*
13C2 PFDoA	*86*		*25 - 150*	*01/20/23 05:42*	*01/25/23 14:40*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-200
Lab Sample ID: 500-228026-45
Date Collected: 01/11/23 08:40
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	74		25 - 150	01/20/23 05:42	01/25/23 14:40	1
13C3 PFBS	105		25 - 150	01/20/23 05:42	01/25/23 14:40	1
18O2 PFHxS	95		25 - 150	01/20/23 05:42	01/25/23 14:40	1
13C4 PFOS	91		25 - 150	01/20/23 05:42	01/25/23 14:40	1
13C8 FOSA	100		10 - 150	01/20/23 05:42	01/25/23 14:40	1
d3-NMeFOSAA	96		25 - 150	01/20/23 05:42	01/25/23 14:40	1
d5-NEtFOSAA	109		25 - 150	01/20/23 05:42	01/25/23 14:40	1
d-N-MeFOSA-M	71		10 - 150	01/20/23 05:42	01/25/23 14:40	1
d-N-EtFOSA-M	74		10 - 150	01/20/23 05:42	01/25/23 14:40	1
d7-N-MeFOSE-M	82		10 - 150	01/20/23 05:42	01/25/23 14:40	1
d9-N-EtFOSE-M	80		10 - 150	01/20/23 05:42	01/25/23 14:40	1
M2-4:2 FTS	117		25 - 150	01/20/23 05:42	01/25/23 14:40	1
M2-6:2 FTS	118		25 - 150	01/20/23 05:42	01/25/23 14:40	1
M2-8:2 FTS	112		25 - 150	01/20/23 05:42	01/25/23 14:40	1
13C3 HFPO-DA	133		25 - 150	01/20/23 05:42	01/25/23 14:40	1
13C2 10:2 FTS	101		25 - 150	01/20/23 05:42	01/25/23 14:40	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-5
Lab Sample ID: 500-228026-46
Date Collected: 01/11/23 08:55
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.4**		1.0	0.29	ug/L			01/17/23 16:44	2
Bromobenzene	<0.71		2.0	0.71	ug/L			01/17/23 16:44	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			01/17/23 16:44	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			01/17/23 16:44	2
Bromoform	<0.97		2.0	0.97	ug/L			01/17/23 16:44	2
Bromomethane	<1.6		6.0	1.6	ug/L			01/17/23 16:44	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			01/17/23 16:44	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			01/17/23 16:44	2
Chloroethane	<1.0		2.0	1.0	ug/L			01/17/23 16:44	2
Chloroform	<0.74		4.0	0.74	ug/L			01/17/23 16:44	2
Chloromethane	<0.64		2.0	0.64	ug/L			01/17/23 16:44	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			01/17/23 16:44	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			01/17/23 16:44	2
cis-1,2-Dichloroethene	<0.82		2.0	0.82	ug/L			01/17/23 16:44	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			01/17/23 16:44	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			01/17/23 16:44	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			01/17/23 16:44	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			01/17/23 16:44	2
Dibromomethane	<0.54		2.0	0.54	ug/L			01/17/23 16:44	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			01/17/23 16:44	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			01/17/23 16:44	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			01/17/23 16:44	2
Dichlorodifluoromethane	<1.3		6.0	1.3	ug/L			01/17/23 16:44	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			01/17/23 16:44	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			01/17/23 16:44	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			01/17/23 16:44	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			01/17/23 16:44	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			01/17/23 16:44	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			01/17/23 16:44	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			01/17/23 16:44	2
Ethylbenzene	**31**		1.0	0.37	ug/L			01/17/23 16:44	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			01/17/23 16:44	2
Isopropylbenzene	**60**		2.0	0.77	ug/L			01/17/23 16:44	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			01/17/23 16:44	2
Methylene Chloride	<3.3		10	3.3	ug/L			01/17/23 16:44	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			01/17/23 16:44	2
Naphthalene	**35**		2.0	0.67	ug/L			01/17/23 16:44	2
n-Butylbenzene	**12**		2.0	0.78	ug/L			01/17/23 16:44	2
N-Propylbenzene	**88**		2.0	0.83	ug/L			01/17/23 16:44	2
p-Isopropyltoluene	**17**		2.0	0.72	ug/L			01/17/23 16:44	2
sec-Butylbenzene	**13**		2.0	0.80	ug/L			01/17/23 16:44	2
Styrene	<0.77		2.0	0.77	ug/L			01/17/23 16:44	2
tert-Butylbenzene	**2.3**		2.0	0.80	ug/L			01/17/23 16:44	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			01/17/23 16:44	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			01/17/23 16:44	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			01/17/23 16:44	2
Toluene	<0.30		1.0	0.30	ug/L			01/17/23 16:44	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			01/17/23 16:44	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			01/17/23 16:44	2

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-5
Lab Sample ID: 500-228026-46
Date Collected: 01/11/23 08:55
Matrix: Water
Date Received: 01/13/23 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	<0.92		2.0	0.92	ug/L			01/17/23 16:44	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			01/17/23 16:44	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			01/17/23 16:44	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			01/17/23 16:44	2
Trichloroethene	<0.33		1.0	0.33	ug/L			01/17/23 16:44	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			01/17/23 16:44	2
1,2,3-Trichloropropane	<0.83		4.0	0.83	ug/L			01/17/23 16:44	2
1,3,5-Trimethylbenzene	**21**		2.0	0.51	ug/L			01/17/23 16:44	2
Vinyl chloride	<0.41		2.0	0.41	ug/L			01/17/23 16:44	2
Xylenes, Total	**330**		2.0	0.44	ug/L			01/17/23 16:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*01/17/23 16:44*	*2*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*01/17/23 16:44*	*2*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*01/17/23 16:44*	*2*
Toluene-d8 (Surr)	*98*		*75 - 120*		*01/17/23 16:44*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**770**		20	7.2	ug/L			01/17/23 17:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 17:07*	*20*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*01/17/23 17:07*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*01/17/23 17:07*	*20*
Toluene-d8 (Surr)	*99*		*75 - 120*		*01/17/23 17:07*	*20*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-31
Lab Sample ID: 500-228026-47
Date Collected: 01/11/23 09:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 17:30	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 17:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 17:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 17:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 17:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 17:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 17:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
Naphthalene	**0.75**	**J**	1.0	0.34	ug/L			01/17/23 17:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 17:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 17:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 17:30	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-31
Lab Sample ID: 500-228026-47
Date Collected: 01/11/23 09:40
Matrix: Water
Date Received: 01/13/23 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			01/17/23 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 17:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 17:30	1
Trichloroethene	**1.6**		0.50	0.16	ug/L			01/17/23 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 17:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 17:30	1
1,2,4-Trimethylbenzene	**1.3**		1.0	0.36	ug/L			01/17/23 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 17:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*01/17/23 17:30*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 120*		*01/17/23 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/17/23 17:30*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*01/17/23 17:30*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-16
Lab Sample ID: 500-228026-48
Date Collected: 01/11/23 10:20
Matrix: Water
Date Received: 01/13/23 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			01/17/23 17:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 17:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 17:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 17:53	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 17:53	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 17:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 17:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 17:53	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 17:53	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 17:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 17:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 17:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 17:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 17:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 17:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 17:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 17:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 17:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 17:53	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 17:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 17:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 17:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 17:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 17:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 17:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 17:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 17:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 17:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 17:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
Naphthalene	**0.36**	**J**	1.0	0.34	ug/L			01/17/23 17:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 17:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 17:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:53	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 17:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 17:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 17:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 17:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 17:53	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 17:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 17:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 17:53	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-16
Lab Sample ID: 500-228026-48
Date Collected: 01/11/23 10:20
Matrix: Water
Date Received: 01/13/23 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			01/17/23 17:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 17:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 17:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 17:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 17:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 17:53	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 17:53	1
1,2,4-Trimethylbenzene	**0.91**	**J**	1.0	0.36	ug/L			01/17/23 17:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 17:53	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 17:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 17:53*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*01/17/23 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*01/17/23 17:53*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*01/17/23 17:53*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-15
Lab Sample ID: 500-228026-49
Date Collected: 01/11/23 11:00
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.5		5.0	1.5	ug/L			01/17/23 18:16	10
Bromobenzene	<3.6		10	3.6	ug/L			01/17/23 18:16	10
Bromochloromethane	<4.3		10	4.3	ug/L			01/17/23 18:16	10
Bromodichloromethane	<3.7		10	3.7	ug/L			01/17/23 18:16	10
Bromoform	<4.8		10	4.8	ug/L			01/17/23 18:16	10
Bromomethane	<8.0		30	8.0	ug/L			01/17/23 18:16	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			01/17/23 18:16	10
Chlorobenzene	<3.9		10	3.9	ug/L			01/17/23 18:16	10
Chloroethane	<5.1		10	5.1	ug/L			01/17/23 18:16	10
Chloroform	<3.7		20	3.7	ug/L			01/17/23 18:16	10
Chloromethane	<3.2		10	3.2	ug/L			01/17/23 18:16	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			01/17/23 18:16	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			01/17/23 18:16	10
cis-1,2-Dichloroethene	<4.1		10	4.1	ug/L			01/17/23 18:16	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			01/17/23 18:16	10
Dibromochloromethane	<4.9		10	4.9	ug/L			01/17/23 18:16	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			01/17/23 18:16	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			01/17/23 18:16	10
Dibromomethane	<2.7		10	2.7	ug/L			01/17/23 18:16	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			01/17/23 18:16	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			01/17/23 18:16	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			01/17/23 18:16	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			01/17/23 18:16	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			01/17/23 18:16	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			01/17/23 18:16	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			01/17/23 18:16	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			01/17/23 18:16	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			01/17/23 18:16	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			01/17/23 18:16	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			01/17/23 18:16	10
Ethylbenzene	**46**		5.0	1.8	ug/L			01/17/23 18:16	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			01/17/23 18:16	10
Isopropylbenzene	**37**		10	3.9	ug/L			01/17/23 18:16	10
Isopropyl ether	<2.8		10	2.8	ug/L			01/17/23 18:16	10
Methylene Chloride	<16		50	16	ug/L			01/17/23 18:16	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			01/17/23 18:16	10
Naphthalene	**140**		10	3.4	ug/L			01/17/23 18:16	10
n-Butylbenzene	<3.9		10	3.9	ug/L			01/17/23 18:16	10
N-Propylbenzene	**52**		10	4.1	ug/L			01/17/23 18:16	10
p-Isopropyltoluene	**46**		10	3.6	ug/L			01/17/23 18:16	10
sec-Butylbenzene	**24**		10	4.0	ug/L			01/17/23 18:16	10
Styrene	<3.9		10	3.9	ug/L			01/17/23 18:16	10
tert-Butylbenzene	**7.9**	**J**	10	4.0	ug/L			01/17/23 18:16	10
1,1,1,2-Tetrachloroethane	<4.6		10	4.6	ug/L			01/17/23 18:16	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			01/17/23 18:16	10
Tetrachloroethene	<3.7		10	3.7	ug/L			01/17/23 18:16	10
Toluene	<1.5		5.0	1.5	ug/L			01/17/23 18:16	10
trans-1,2-Dichloroethene	<3.5		10	3.5	ug/L			01/17/23 18:16	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			01/17/23 18:16	10

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-15
Lab Sample ID: 500-228026-49
Date Collected: 01/11/23 11:00
Matrix: Water
Date Received: 01/13/23 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	<4.6		10	4.6	ug/L			01/17/23 18:16	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			01/17/23 18:16	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			01/17/23 18:16	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			01/17/23 18:16	10
Trichloroethene	<1.6		5.0	1.6	ug/L			01/17/23 18:16	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			01/17/23 18:16	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			01/17/23 18:16	10
1,2,4-Trimethylbenzene	**1500**		10	3.6	ug/L			01/17/23 18:16	10
1,3,5-Trimethylbenzene	**320**		10	2.5	ug/L			01/17/23 18:16	10
Vinyl chloride	<2.0		10	2.0	ug/L			01/17/23 18:16	10
Xylenes, Total	**480**		10	2.2	ug/L			01/17/23 18:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*01/17/23 18:16*	*10*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*01/17/23 18:16*	*10*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*01/17/23 18:16*	*10*
Toluene-d8 (Surr)	*97*		*75 - 120*		*01/17/23 18:16*	*10*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-05
Lab Sample ID: 500-228026-50
Date Collected: 01/11/23 11:30
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 19:02	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 19:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 19:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 19:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 19:02	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 19:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 19:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 19:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 19:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 19:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 19:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 19:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 19:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 19:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 19:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 19:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 19:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 19:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 19:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 19:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 19:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 19:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 19:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 19:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 19:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
Naphthalene	**0.41**	**J**	1.0	0.34	ug/L			01/17/23 19:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 19:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 19:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:02	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 19:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 19:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 19:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 19:02	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 19:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 19:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 19:02	1

Client Sample ID: EB-05
Lab Sample ID: 500-228026-50
Date Collected: 01/11/23 11:30
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 19:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 19:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 19:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 19:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 19:02	1
1,2,4-Trimethylbenzene	**0.46**	**J**	1.0	0.36	ug/L			01/17/23 19:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 19:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 19:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*01/17/23 19:02*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*01/17/23 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*01/17/23 19:02*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*01/17/23 19:02*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		4.9	2.4	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluoropentanoic acid (PFPeA)	<0.48		2.0	0.48	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorohexanoic acid (PFHxA)	<0.57		2.0	0.57	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluoroheptanoic acid (PFHpA)	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorooctanoic acid (PFOA)	<0.83		2.0	0.83	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorononanoic acid (PFNA)	<0.26		2.0	0.26	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		2.0	0.71	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		2.0	0.29	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		2.0	0.56	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	0.53	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		01/20/23 05:42	01/26/23 19:00	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		01/20/23 05:42	01/26/23 19:00	1
NEtFOSA	<0.85		2.0	0.85	ng/L		01/20/23 05:42	01/26/23 19:00	1
NMeFOSA	<0.42		2.0	0.42	ng/L		01/20/23 05:42	01/26/23 19:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		01/20/23 05:42	01/26/23 19:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		01/20/23 05:42	01/26/23 19:00	1
NMeFOSE	<1.4		3.9	1.4	ng/L		01/20/23 05:42	01/26/23 19:00	1
NEtFOSE	<0.83		2.0	0.83	ng/L		01/20/23 05:42	01/26/23 19:00	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: EB-05
Lab Sample ID: 500-228026-50
Date Collected: 01/11/23 11:30
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/26/23 19:00	1
6:2 FTS	<2.4		4.9	2.4	ng/L		01/20/23 05:42	01/26/23 19:00	1
8:2 FTS	<0.45		2.0	0.45	ng/L		01/20/23 05:42	01/26/23 19:00	1
DONA	<0.39		2.0	0.39	ng/L		01/20/23 05:42	01/26/23 19:00	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		01/20/23 05:42	01/26/23 19:00	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/26/23 19:00	1
F-53B Minor	<0.31		2.0	0.31	ng/L		01/20/23 05:42	01/26/23 19:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C5 PFPeA	*100*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 PFHxA	*90*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C4 PFHpA	*99*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C4 PFOA	*97*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C5 PFNA	*95*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 PFDA	*98*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 PFUnA	*105*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 PFDoA	*85*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 PFTeDA	*96*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C3 PFBS	*88*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
18O2 PFHxS	*106*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C4 PFOS	*86*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C8 FOSA	*86*		*10 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d3-NMeFOSAA	*95*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d5-NEtFOSAA	*96*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d-N-MeFOSA-M	*64*		*10 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d-N-EtFOSA-M	*71*		*10 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d7-N-MeFOSE-M	*76*		*10 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
d9-N-EtFOSE-M	*77*		*10 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
M2-4:2 FTS	*113*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
M2-6:2 FTS	*96*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C3 HFPO-DA	*105*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*
13C2 10:2 FTS	*89*		*25 - 150*	*01/20/23 05:42*	*01/26/23 19:00*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-05
Lab Sample ID: 500-228026-51
Date Collected: 01/11/23 11:35
Matrix: Water
Date Received: 01/13/23 09:30

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		01/20/23 05:42	01/25/23 15:32	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/20/23 05:42	01/25/23 15:32	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/20/23 05:42	01/25/23 15:32	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/20/23 05:42	01/25/23 15:32	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/20/23 05:42	01/25/23 15:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/20/23 05:42	01/25/23 15:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/20/23 05:42	01/25/23 15:32	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/20/23 05:42	01/25/23 15:32	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/20/23 05:42	01/25/23 15:32	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 15:32	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/20/23 05:42	01/25/23 15:32	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/20/23 05:42	01/25/23 15:32	1
DONA	<0.38		1.9	0.38	ng/L		01/20/23 05:42	01/25/23 15:32	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/20/23 05:42	01/25/23 15:32	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 15:32	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/20/23 05:42	01/25/23 15:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C5 PFPeA	*97*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C2 PFHxA	*100*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C4 PFHpA	*109*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C4 PFOA	*111*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C5 PFNA	*111*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C2 PFDA	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C2 PFUnA	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C2 PFDoA	*90*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*
13C3 PFBS	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:32*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-05
Lab Sample ID: 500-228026-51
Date Collected: 01/11/23 11:35
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150	01/20/23 05:42	01/25/23 15:32	1
13C4 PFOS	91		25 - 150	01/20/23 05:42	01/25/23 15:32	1
13C8 FOSA	96		10 - 150	01/20/23 05:42	01/25/23 15:32	1
d3-NMeFOSAA	109		25 - 150	01/20/23 05:42	01/25/23 15:32	1
d5-NEtFOSAA	119		25 - 150	01/20/23 05:42	01/25/23 15:32	1
d-N-MeFOSA-M	77		10 - 150	01/20/23 05:42	01/25/23 15:32	1
d-N-EtFOSA-M	78		10 - 150	01/20/23 05:42	01/25/23 15:32	1
d7-N-MeFOSE-M	91		10 - 150	01/20/23 05:42	01/25/23 15:32	1
d9-N-EtFOSE-M	89		10 - 150	01/20/23 05:42	01/25/23 15:32	1
M2-4:2 FTS	125		25 - 150	01/20/23 05:42	01/25/23 15:32	1
M2-6:2 FTS	146		25 - 150	01/20/23 05:42	01/25/23 15:32	1
M2-8:2 FTS	113		25 - 150	01/20/23 05:42	01/25/23 15:32	1
13C3 HFPO-DA	120		25 - 150	01/20/23 05:42	01/25/23 15:32	1
13C2 10:2 FTS	114		25 - 150	01/20/23 05:42	01/25/23 15:32	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-228026-52
Date Collected: 01/11/23 00:00
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 19:25	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 19:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 19:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 19:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 19:25	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 19:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 19:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 19:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 19:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 19:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 19:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 19:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 19:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 19:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 19:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 19:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 19:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 19:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 19:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 19:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 19:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 19:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 19:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 19:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 19:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 19:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:25	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 19:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 19:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 19:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 19:25	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 19:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 19:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-228026-52
Date Collected: 01/11/23 00:00
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 19:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 19:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 19:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 19:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 19:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 19:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 19:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*01/17/23 19:25*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*01/17/23 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*01/17/23 19:25*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*01/17/23 19:25*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209 DUP
Lab Sample ID: 500-228026-53
Date Collected: 01/10/23 08:20
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 19:48	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 19:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 19:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 19:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 19:48	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 19:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 19:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 19:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 19:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 19:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 19:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 19:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 19:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 19:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 19:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 19:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 19:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 19:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 19:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 19:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 19:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 19:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 19:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 19:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 19:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 19:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:48	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 19:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 19:48	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 19:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 19:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 19:48	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 19:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 19:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209 DUP
Lab Sample ID: 500-228026-53
Date Collected: 01/10/23 08:20
Matrix: Water
Date Received: 01/13/23 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			01/17/23 19:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 19:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 19:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 19:48	1
Trichloroethene	**1.6**		0.50	0.16	ug/L			01/17/23 19:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 19:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 19:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 19:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 19:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 19:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*01/17/23 19:48*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 120*		*01/17/23 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*01/17/23 19:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*01/17/23 19:48*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.1**		4.7	2.3	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluoropentanoic acid (PFPeA)	**3.8**		1.9	0.46	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorohexanoic acid (PFHxA)	**4.2**		1.9	0.55	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluoroheptanoic acid (PFHpA)	**4.4**		1.9	0.24	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorooctanoic acid (PFOA)	**63**		1.9	0.80	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorononanoic acid (PFNA)	**0.55**	**J**	1.9	0.25	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorodecanoic acid (PFDA)	**0.35**	**J**	1.9	0.29	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.9	0.19	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluoropentanesulfonic acid (PFPeS)	**0.28**	**J**	1.9	0.28	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorohexanesulfonic acid (PFHxS)	**7.8**		1.9	0.54	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.20**	**J**	1.9	0.18	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorooctanesulfonic acid (PFOS)	**13**		1.9	0.51	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		01/20/23 05:42	01/25/23 15:42	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		01/20/23 05:42	01/25/23 15:42	1
NEtFOSA	<0.82		1.9	0.82	ng/L		01/20/23 05:42	01/25/23 15:42	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/20/23 05:42	01/25/23 15:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		01/20/23 05:42	01/25/23 15:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		01/20/23 05:42	01/25/23 15:42	1

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-209 DUP
Lab Sample ID: 500-228026-53
Date Collected: 01/10/23 08:20
Matrix: Water
Date Received: 01/13/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.3		3.8	1.3	ng/L		01/20/23 05:42	01/25/23 15:42	1
NEtFOSE	<0.80		1.9	0.80	ng/L		01/20/23 05:42	01/25/23 15:42	1
4:2 FTS	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 15:42	1
6:2 FTS	<2.4		4.7	2.4	ng/L		01/20/23 05:42	01/25/23 15:42	1
8:2 FTS	<0.43		1.9	0.43	ng/L		01/20/23 05:42	01/25/23 15:42	1
DONA	<0.38		1.9	0.38	ng/L		01/20/23 05:42	01/25/23 15:42	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/20/23 05:42	01/25/23 15:42	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:42	01/25/23 15:42	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/20/23 05:42	01/25/23 15:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C5 PFPeA	*90*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 PFHxA	*92*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C4 PFHpA	*86*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C4 PFOA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C5 PFNA	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 PFDA	*82*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 PFUnA	*88*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 PFDoA	*75*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 PFTeDA	*77*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C3 PFBS	*97*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
18O2 PFHxS	*86*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C4 PFOS	*80*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C8 FOSA	*92*		*10 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d3-NMeFOSAA	*87*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d5-NEtFOSAA	*94*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d-N-MeFOSA-M	*63*		*10 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d-N-EtFOSA-M	*65*		*10 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d7-N-MeFOSE-M	*69*		*10 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
d9-N-EtFOSE-M	*66*		*10 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
M2-4:2 FTS	*122*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
M2-8:2 FTS	*120*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C3 HFPO-DA	*110*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*
13C2 10:2 FTS	*87*		*25 - 150*	*01/20/23 05:42*	*01/25/23 15:42*	*1*

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
CI	The peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
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.

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

GC/MS VOA

Analysis Batch: 694064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-4	MW-209	Total/NA	Water	8260B	
500-228026-15	EB-04	Total/NA	Water	8260B	
500-228026-18	MW-219	Total/NA	Water	8260B	
500-228026-19	MW-121	Total/NA	Water	8260B	
500-228026-19 - DL	MW-121	Total/NA	Water	8260B	
500-228026-27	MW-213	Total/NA	Water	8260B	
500-228026-27 - DL	MW-213	Total/NA	Water	8260B	
500-228026-28	MW-213 DUP	Total/NA	Water	8260B	
500-228026-28 - DL	MW-213 DUP	Total/NA	Water	8260B	
500-228026-29	MW-82	Total/NA	Water	8260B	
500-228026-31	EB-01	Total/NA	Water	8260B	
500-228026-32	AECOM MW-19	Total/NA	Water	8260B	
500-228026-33	MW-17	Total/NA	Water	8260B	
500-228026-35	MW-8	Total/NA	Water	8260B	
MB 500-694064/7	Method Blank	Total/NA	Water	8260B	
LCS 500-694064/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 694276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-23	EB-06	Total/NA	Water	8260B	
500-228026-36	MW-3	Total/NA	Water	8260B	
500-228026-37	MW-37	Total/NA	Water	8260B	
500-228026-38	MW-19	Total/NA	Water	8260B	
500-228026-40	MW-9	Total/NA	Water	8260B	
500-228026-41	MW-9 DUP	Total/NA	Water	8260B	
500-228026-42	EB-03	Total/NA	Water	8260B	
500-228026-46	MW-5	Total/NA	Water	8260B	
500-228026-46 - DL	MW-5	Total/NA	Water	8260B	
500-228026-47	MW-31	Total/NA	Water	8260B	
500-228026-48	MW-16	Total/NA	Water	8260B	
500-228026-49	MW-15	Total/NA	Water	8260B	
500-228026-50	EB-05	Total/NA	Water	8260B	
500-228026-52	TRIP BLANK	Total/NA	Water	8260B	
500-228026-53	MW-209 DUP	Total/NA	Water	8260B	
MB 500-694276/7	Method Blank	Total/NA	Water	8260B	
LCS 500-694276/4	Lab Control Sample	Total/NA	Water	8260B	

LCMS

Prep Batch: 647722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-2	AMEC_MW-15	Total/NA	Water	3535	
500-228026-4	MW-209	Total/NA	Water	3535	
500-228026-5	EB-02	Total/NA	Water	3535	
500-228026-6	FB-02	Total/NA	Water	3535	
500-228026-7	MW-235	Total/NA	Water	3535	
500-228026-8	MW-236	Total/NA	Water	3535	
500-228026-9	PZ-226	Total/NA	Water	3535	
500-228026-10	MW-226	Total/NA	Water	3535	
500-228026-11	AMEC_MW-16	Total/NA	Water	3535	
500-228026-11 - DL	AMEC_MW-16	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 647722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-12	AMEC_MW-16A	Total/NA	Water	3535	
500-228026-14	FB-04	Total/NA	Water	3535	
MB 320-647722/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 647723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-15	EB-04	Total/NA	Water	3535	
500-228026-16	AMEC_MW-14	Total/NA	Water	3535	
500-228026-17	AMEC_MW-17	Total/NA	Water	3535	
500-228026-20	MW-12	Total/NA	Water	3535	
500-228026-20 - DL	MW-12	Total/NA	Water	3535	
500-228026-21	MW-12 DUP	Total/NA	Water	3535	
500-228026-21 - DL	MW-12 DUP	Total/NA	Water	3535	
500-228026-22	FB-06	Total/NA	Water	3535	
500-228026-23	EB-06	Total/NA	Water	3535	
500-228026-24	MW-201	Total/NA	Water	3535	
500-228026-25	MW-204	Total/NA	Water	3535	
500-228026-26	PZ-206	Total/NA	Water	3535	
500-228026-27	MW-213	Total/NA	Water	3535	
500-228026-28	MW-213 DUP	Total/NA	Water	3535	
500-228026-30	FB-01	Total/NA	Water	3535	
500-228026-31	EB-01	Total/NA	Water	3535	
500-228026-34	PZ-214	Total/NA	Water	3535	
500-228026-39	MW-48	Total/NA	Water	3535	
500-228026-39 - DL	MW-48	Total/NA	Water	3535	
MB 320-647723/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-647723/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-647723/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 648235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-40 - DL	MW-9	Total/NA	Water	3535	
500-228026-40	MW-9	Total/NA	Water	3535	
500-228026-41	MW-9 DUP	Total/NA	Water	3535	
500-228026-42	EB-03	Total/NA	Water	3535	
500-228026-43	FB-03	Total/NA	Water	3535	
500-228026-44	PZ-200	Total/NA	Water	3535	
500-228026-45	MW-200	Total/NA	Water	3535	
500-228026-50	EB-05	Total/NA	Water	3535	
500-228026-51	FB-05	Total/NA	Water	3535	
500-228026-53	MW-209 DUP	Total/NA	Water	3535	
MB 320-648235/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-648235/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-648235/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 648490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-2	AMEC_MW-15	Total/NA	Water	537 (modified)	647722
500-228026-4	MW-209	Total/NA	Water	537 (modified)	647722

LCMS (Continued)

Analysis Batch: 648490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-5	EB-02	Total/NA	Water	537 (modified)	647722
500-228026-6	FB-02	Total/NA	Water	537 (modified)	647722
500-228026-7	MW-235	Total/NA	Water	537 (modified)	647722
500-228026-8	MW-236	Total/NA	Water	537 (modified)	647722
500-228026-9	PZ-226	Total/NA	Water	537 (modified)	647722
500-228026-10	MW-226	Total/NA	Water	537 (modified)	647722
500-228026-11	AMEC_MW-16	Total/NA	Water	537 (modified)	647722
500-228026-12	AMEC_MW-16A	Total/NA	Water	537 (modified)	647722
500-228026-14	FB-04	Total/NA	Water	537 (modified)	647722
MB 320-647722/1-A	Method Blank	Total/NA	Water	537 (modified)	647722
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	647722

Analysis Batch: 648496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-17	AMEC_MW-17	Total/NA	Water	537 (modified)	647723
500-228026-22	FB-06	Total/NA	Water	537 (modified)	647723
500-228026-23	EB-06	Total/NA	Water	537 (modified)	647723
500-228026-24	MW-201	Total/NA	Water	537 (modified)	647723
500-228026-25	MW-204	Total/NA	Water	537 (modified)	647723
500-228026-26	PZ-206	Total/NA	Water	537 (modified)	647723
500-228026-27	MW-213	Total/NA	Water	537 (modified)	647723
500-228026-28	MW-213 DUP	Total/NA	Water	537 (modified)	647723
500-228026-30	FB-01	Total/NA	Water	537 (modified)	647723
500-228026-31	EB-01	Total/NA	Water	537 (modified)	647723
500-228026-34	PZ-214	Total/NA	Water	537 (modified)	647723
500-228026-39	MW-48	Total/NA	Water	537 (modified)	647723
MB 320-647723/1-A	Method Blank	Total/NA	Water	537 (modified)	647723
LCS 320-647723/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	647723
LCSD 320-647723/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	647723

Analysis Batch: 648807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	647722

Analysis Batch: 648813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-15	EB-04	Total/NA	Water	537 (modified)	647723
500-228026-16	AMEC_MW-14	Total/NA	Water	537 (modified)	647723
500-228026-20	MW-12	Total/NA	Water	537 (modified)	647723
500-228026-21	MW-12 DUP	Total/NA	Water	537 (modified)	647723
500-228026-39 - DL	MW-48	Total/NA	Water	537 (modified)	647723

Analysis Batch: 649279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-40	MW-9	Total/NA	Water	537 (modified)	648235
500-228026-42	EB-03	Total/NA	Water	537 (modified)	648235
500-228026-43	FB-03	Total/NA	Water	537 (modified)	648235
500-228026-45	MW-200	Total/NA	Water	537 (modified)	648235
500-228026-51	FB-05	Total/NA	Water	537 (modified)	648235
500-228026-53	MW-209 DUP	Total/NA	Water	537 (modified)	648235
MB 320-648235/1-A	Method Blank	Total/NA	Water	537 (modified)	648235

LCMS (Continued)

Analysis Batch: 649279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-648235/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	648235
LCSD 320-648235/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	648235

Analysis Batch: 649743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-44	PZ-200	Total/NA	Water	537 (modified)	648235
500-228026-50	EB-05	Total/NA	Water	537 (modified)	648235

Analysis Batch: 649945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-40 - DL	MW-9	Total/NA	Water	537 (modified)	648235
500-228026-41	MW-9 DUP	Total/NA	Water	537 (modified)	648235

Analysis Batch: 651580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-11 - DL	AMEC_MW-16	Total/NA	Water	537 (modified)	647722

Analysis Batch: 651612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-20 - DL	MW-12	Total/NA	Water	537 (modified)	647723
500-228026-21 - DL	MW-12 DUP	Total/NA	Water	537 (modified)	647723

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)
500-228026-4	MW-209	101	95	101	98
500-228026-15	EB-04	99	96	103	97
500-228026-18	MW-219	99	99	103	97
500-228026-19	MW-121	96	91	99	96
500-228026-19 - DL	MW-121	98	95	103	97
500-228026-23	EB-06	85	104	102	101
500-228026-27	MW-213	96	91	97	99
500-228026-27 - DL	MW-213	100	94	100	97
500-228026-28	MW-213 DUP	97	90	96	98
500-228026-28 - DL	MW-213 DUP	99	95	101	95
500-228026-29	MW-82	102	94	104	97
500-228026-31	EB-01	103	94	103	95
500-228026-32	AECOM MW-19	104	96	104	95
500-228026-33	MW-17	102	98	105	95
500-228026-35	MW-8	102	97	105	97
500-228026-36	MW-3	90	101	104	100
500-228026-37	MW-37	89	106	104	99
500-228026-38	MW-19	88	103	107	100
500-228026-40	MW-9	88	105	100	103
500-228026-41	MW-9 DUP	90	106	105	103
500-228026-42	EB-03	88	107	105	103
500-228026-46	MW-5	87	104	104	98
500-228026-46 - DL	MW-5	88	107	107	99
500-228026-47	MW-31	87	105	103	105
500-228026-48	MW-16	88	108	108	103
500-228026-49	MW-15	88	108	106	97
500-228026-50	EB-05	89	107	108	101
500-228026-52	TRIP BLANK	89	108	107	100
500-228026-53	MW-209 DUP	89	105	105	98
LCS 500-694064/5	Lab Control Sample	98	86	91	100
LCS 500-694276/4	Lab Control Sample	91	99	101	104
MB 500-694064/7	Method Blank	102	96	103	96
MB 500-694276/7	Method Blank	90	104	107	99

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 500-694064/7
Matrix: Water
Analysis Batch: 694064

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			01/16/23 11:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 11:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 11:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 11:30	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 11:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 11:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 11:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 11:30	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 11:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 11:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 11:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 11:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 11:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 11:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 11:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 11:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 11:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 11:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 11:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 11:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 11:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 11:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 11:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 11:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 11:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 11:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 11:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 11:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 11:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 11:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 11:30	1
n-Butylbenzene	0.660	J	1.0	0.39	ug/L			01/16/23 11:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 11:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 11:30	1
sec-Butylbenzene	0.662	J	1.0	0.40	ug/L			01/16/23 11:30	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 11:30	1
tert-Butylbenzene	0.667	J	1.0	0.40	ug/L			01/16/23 11:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 11:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 11:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 11:30	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 11:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 11:30	1

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

Lab Sample ID: MB 500-694064/7
Matrix: Water
Analysis Batch: 694064

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			01/16/23 11:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			01/16/23 11:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 11:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 11:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 11:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 11:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 11:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 11:30	1
1,2,4-Trimethylbenzene	0.740	J	1.0	0.36	ug/L			01/16/23 11:30	1
1,3,5-Trimethylbenzene	0.784	J	1.0	0.25	ug/L			01/16/23 11:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 11:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*01/16/23 11:30*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*01/16/23 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*01/16/23 11:30*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*01/16/23 11:30*	*1*

Lab Sample ID: LCS 500-694064/5
Matrix: Water
Analysis Batch: 694064

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	41.4		ug/L		103	70 - 120
Bromobenzene	40.0	45.4		ug/L		113	70 - 122
Bromochloromethane	40.0	38.5		ug/L		96	65 - 122
Bromodichloromethane	40.0	38.8		ug/L		97	69 - 120
Bromoform	40.0	38.6		ug/L		97	56 - 132
Bromomethane	40.0	33.2		ug/L		83	40 - 152
Carbon tetrachloride	40.0	34.7		ug/L		87	59 - 133
Chlorobenzene	40.0	42.6		ug/L		106	70 - 120
Chloroethane	40.0	37.0		ug/L		92	48 - 136
Chloroform	40.0	37.0		ug/L		93	70 - 120
Chloromethane	40.0	37.5		ug/L		94	56 - 152
2-Chlorotoluene	40.0	44.3		ug/L		111	70 - 125
4-Chlorotoluene	40.0	44.6		ug/L		112	68 - 124
cis-1,2-Dichloroethene	40.0	40.6		ug/L		101	70 - 125
cis-1,3-Dichloropropene	40.0	36.9		ug/L		92	64 - 127
Dibromochloromethane	40.0	40.5		ug/L		101	68 - 125
1,2-Dibromo-3-Chloropropane	40.0	30.7		ug/L		77	56 - 123
1,2-Dibromoethane	40.0	39.9		ug/L		100	70 - 125
Dibromomethane	40.0	36.8		ug/L		92	70 - 120
1,2-Dichlorobenzene	40.0	40.7		ug/L		102	70 - 125
1,3-Dichlorobenzene	40.0	42.1		ug/L		105	70 - 125
1,4-Dichlorobenzene	40.0	40.3		ug/L		101	70 - 120
Dichlorodifluoromethane	40.0	21.4		ug/L		53	40 - 159
1,1-Dichloroethane	40.0	42.1		ug/L		105	70 - 125

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

Lab Sample ID: LCS 500-694064/5
Matrix: Water
Analysis Batch: 694064

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	40.0	42.1		ug/L		105	68 - 127
1,1-Dichloroethene	40.0	39.4		ug/L		99	67 - 122
1,2-Dichloropropane	40.0	43.7		ug/L		109	67 - 130
1,3-Dichloropropane	40.0	41.3		ug/L		103	62 - 136
2,2-Dichloropropane	40.0	37.5		ug/L		94	58 - 139
1,1-Dichloropropene	40.0	40.3		ug/L		101	70 - 121
Ethylbenzene	40.0	43.0		ug/L		107	70 - 123
Hexachlorobutadiene	40.0	37.2		ug/L		93	51 - 150
Isopropylbenzene	40.0	37.8		ug/L		94	70 - 126
Methylene Chloride	40.0	38.6		ug/L		97	69 - 125
Methyl tert-butyl ether	40.0	34.6		ug/L		87	55 - 123
Naphthalene	40.0	27.0		ug/L		67	53 - 144
n-Butylbenzene	40.0	34.9		ug/L		87	68 - 125
N-Propylbenzene	40.0	39.1		ug/L		98	69 - 127
p-Isopropyltoluene	40.0	35.5		ug/L		89	70 - 125
sec-Butylbenzene	40.0	36.9		ug/L		92	70 - 123
Styrene	40.0	36.7		ug/L		92	70 - 120
tert-Butylbenzene	40.0	36.5		ug/L		91	70 - 121
1,1,1,2-Tetrachloroethane	40.0	39.9		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	40.0	39.8		ug/L		100	62 - 140
Tetrachloroethene	40.0	43.1		ug/L		108	70 - 128
Toluene	40.0	43.6		ug/L		109	70 - 125
trans-1,2-Dichloroethene	40.0	40.1		ug/L		100	70 - 125
trans-1,3-Dichloropropene	40.0	36.4		ug/L		91	62 - 128
1,2,3-Trichlorobenzene	40.0	33.3		ug/L		83	51 - 145
1,2,4-Trichlorobenzene	40.0	35.2		ug/L		88	57 - 137
1,1,1-Trichloroethane	40.0	37.7		ug/L		94	70 - 125
1,1,2-Trichloroethane	40.0	43.9		ug/L		110	71 - 130
Trichloroethene	40.0	40.3		ug/L		101	70 - 125
Trichlorofluoromethane	40.0	30.6		ug/L		76	55 - 128
1,2,3-Trichloropropane	40.0	37.1		ug/L		93	50 - 133
1,2,4-Trimethylbenzene	40.0	37.4		ug/L		94	70 - 123
1,3,5-Trimethylbenzene	40.0	37.3		ug/L		93	70 - 123
Vinyl chloride	40.0	37.5		ug/L		94	64 - 126
Xylenes, Total	80.0	79.7		ug/L		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*86*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-694276/7
Matrix: Water
Analysis Batch: 694276

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			01/17/23 13:40	1

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

Lab Sample ID: MB 500-694276/7
Matrix: Water
Analysis Batch: 694276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 13:40	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 13:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 13:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 13:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 13:40	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 13:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 13:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 13:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 13:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 13:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 13:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 13:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 13:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 13:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 13:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 13:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 13:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 13:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 13:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 13:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 13:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 13:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 13:40	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 13:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			01/17/23 13:40	1

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

Lab Sample ID: MB 500-694276/7
Matrix: Water
Analysis Batch: 694276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 13:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 13:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 13:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 13:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 13:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 13:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*01/17/23 13:40*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*01/17/23 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*01/17/23 13:40*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*01/17/23 13:40*	*1*

Lab Sample ID: LCS 500-694276/4
Matrix: Water
Analysis Batch: 694276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	48.3		ug/L		97	70 - 120
Bromobenzene	50.0	45.3		ug/L		91	70 - 122
Bromochloromethane	50.0	48.2		ug/L		96	65 - 122
Bromodichloromethane	50.0	49.8		ug/L		100	69 - 120
Bromoform	50.0	51.1		ug/L		102	56 - 132
Bromomethane	50.0	67.8		ug/L		136	40 - 152
Carbon tetrachloride	50.0	50.5		ug/L		101	59 - 133
Chlorobenzene	50.0	48.9		ug/L		98	70 - 120
Chloroethane	50.0	64.3		ug/L		129	48 - 136
Chloroform	50.0	46.9		ug/L		94	70 - 120
Chloromethane	50.0	42.4		ug/L		85	56 - 152
2-Chlorotoluene	50.0	45.4		ug/L		91	70 - 125
4-Chlorotoluene	50.0	46.4		ug/L		93	68 - 124
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	45.6		ug/L		91	64 - 127
Dibromochloromethane	50.0	50.7		ug/L		101	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.4		ug/L		79	56 - 123
1,2-Dibromoethane	50.0	45.3		ug/L		91	70 - 125
Dibromomethane	50.0	49.0		ug/L		98	70 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 125
1,3-Dichlorobenzene	50.0	44.8		ug/L		90	70 - 125
1,4-Dichlorobenzene	50.0	45.5		ug/L		91	70 - 120
Dichlorodifluoromethane	50.0	45.8		ug/L		92	40 - 159
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 125
1,2-Dichloroethane	50.0	49.9		ug/L		100	68 - 127
1,1-Dichloroethene	50.0	51.9		ug/L		104	67 - 122

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

Lab Sample ID: LCS 500-694276/4
Matrix: Water
Analysis Batch: 694276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	47.2		ug/L		94	67 - 130
1,3-Dichloropropane	50.0	48.9		ug/L		98	62 - 136
2,2-Dichloropropane	50.0	41.5		ug/L		83	58 - 139
1,1-Dichloropropene	50.0	47.0		ug/L		94	70 - 121
Ethylbenzene	50.0	44.7		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	41.2		ug/L		82	51 - 150
Isopropylbenzene	50.0	43.4		ug/L		87	70 - 126
Methylene Chloride	50.0	50.5		ug/L		101	69 - 125
Methyl tert-butyl ether	50.0	42.6		ug/L		85	55 - 123
Naphthalene	50.0	31.6		ug/L		63	53 - 144
n-Butylbenzene	50.0	45.9		ug/L		92	68 - 125
N-Propylbenzene	50.0	46.4		ug/L		93	69 - 127
p-Isopropyltoluene	50.0	43.9		ug/L		88	70 - 125
sec-Butylbenzene	50.0	45.4		ug/L		91	70 - 123
Styrene	50.0	49.3		ug/L		99	70 - 120
tert-Butylbenzene	50.0	43.3		ug/L		87	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.5		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	62 - 140
Tetrachloroethene	50.0	49.5		ug/L		99	70 - 128
Toluene	50.0	46.8		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	44.7		ug/L		89	62 - 128
1,2,3-Trichlorobenzene	50.0	34.1		ug/L		68	51 - 145
1,2,4-Trichlorobenzene	50.0	36.9		ug/L		74	57 - 137
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	70 - 125
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	71 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	51.7		ug/L		103	55 - 128
1,2,3-Trichloropropane	50.0	42.0		ug/L		84	50 - 133
1,2,4-Trimethylbenzene	50.0	44.9		ug/L		90	70 - 123
1,3,5-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
Vinyl chloride	50.0	47.5		ug/L		95	64 - 126
Xylenes, Total	100	95.2		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/18/23 06:12	01/21/23 03:40	1

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

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/18/23 06:12	01/21/23 03:40	1
DONA	<0.40		2.0	0.40	ng/L		01/18/23 06:12	01/21/23 03:40	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFPeA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFHxA	*132*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFOA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFNA	*117*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFUnA	*120*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDoA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFTeDA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C3 PFBS	*118*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
18O2 PFHxS	*119*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*

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

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	111		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C8 FOSA	127		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d3-NMeFOSAA	122		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d5-NEtFOSAA	127		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-MeFOSA-M	96		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-EtFOSA-M	105		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d7-N-MeFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d9-N-EtFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-4:2 FTS	103		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-6:2 FTS	95		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-8:2 FTS	97		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C3 HFPO-DA	131		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C2 10:2 FTS	88		25 - 150	01/18/23 06:12	01/21/23 03:40	1

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	44.0		ng/L		110	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.1		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.7		ng/L		117	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.1		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	47.7		ng/L		119	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.5		ng/L		116	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.7		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	51.5		ng/L		129	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	47.2		ng/L		118	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	43.8		ng/L		110	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	40.5		ng/L		114	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.0		ng/L		112	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.8		ng/L		112	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.0		ng/L		105	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	43.8		ng/L		118	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	47.3		ng/L		123	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.4		ng/L		107	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.7		ng/L		110	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		104	60 - 135

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

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSA	40.0	44.3		ng/L		111	60 - 135
NMeFOSA	40.0	52.8		ng/L		132	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.7		ng/L		104	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.4		ng/L		111	60 - 135
NMeFOSE	40.0	46.0		ng/L		115	60 - 135
NEtFOSE	40.0	46.3		ng/L		116	60 - 135
4:2 FTS	37.5	32.4		ng/L		86	60 - 135
6:2 FTS	38.1	46.4		ng/L		122	60 - 135
8:2 FTS	38.4	39.8		ng/L		104	60 - 135
DONA	37.8	47.3		ng/L		125	60 - 135
HFPO-DA (GenX)	40.0	41.9		ng/L		105	60 - 135
F-53B Major	37.4	45.5		ng/L		122	60 - 135
F-53B Minor	37.8	41.3		ng/L		109	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*84*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*97*		*25 - 150*
13C4 PFOA	*100*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
13C2 PFTeDA	*85*		*25 - 150*
13C3 PFBS	*91*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
13C8 FOSA	*92*		*10 - 150*
d3-NMeFOSAA	*97*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*67*		*10 - 150*
d-N-EtFOSA-M	*79*		*10 - 150*
d7-N-MeFOSE-M	*81*		*10 - 150*
d9-N-EtFOSE-M	*83*		*10 - 150*
M2-4:2 FTS	*118*		*25 - 150*
M2-6:2 FTS	*74*		*25 - 150*
M2-8:2 FTS	*89*		*25 - 150*
13C3 HFPO-DA	*109*		*25 - 150*
13C2 10:2 FTS	*87*		*25 - 150*

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	46.1		ng/L		115	60 - 135	5	30

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)			40.0	46.6		ng/L		117	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)			40.0	45.6		ng/L		114	60 - 135	10	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.2		ng/L		113	60 - 135	3	30
Perfluorooctanoic acid (PFOA)			40.0	42.9		ng/L		107	60 - 135	2	30
Perfluorononanoic acid (PFNA)			40.0	45.4		ng/L		114	60 - 135	5	30
Perfluorodecanoic acid (PFDA)			40.0	50.0		ng/L		125	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	46.8		ng/L		117	60 - 135	9	30
Perfluorododecanoic acid (PFDoA)			40.0	50.5		ng/L		126	60 - 135	2	30
Perfluorotridecanoic acid (PFTriA)			40.0	46.5		ng/L		116	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)			40.0	47.5		ng/L		119	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)			35.5	39.1		ng/L		110	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	38.9		ng/L		103	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.5		ng/L		105	60 - 135	6	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	42.3		ng/L		111	60 - 135	6	30
Perfluorooctanesulfonic acid (PFOS)			37.2	41.5		ng/L		112	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)			38.5	46.8		ng/L		122	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	46.5		ng/L		121	60 - 135	12	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	43.3		ng/L		112	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)			40.0	41.9		ng/L		105	60 - 135	0	30
NEtFOSA			40.0	42.7		ng/L		107	60 - 135	4	30
NMeFOSA			40.0	52.3		ng/L		131	60 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	46.0		ng/L		115	60 - 135	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	46.1		ng/L		115	60 - 135	4	30
NMeFOSE			40.0	45.4		ng/L		114	60 - 135	1	30
NEtFOSE			40.0	43.9		ng/L		110	60 - 135	5	30
4:2 FTS			37.5	45.8	*1	ng/L		122	60 - 135	34	30
6:2 FTS			38.1	51.2		ng/L		134	60 - 135	10	30
8:2 FTS			38.4	41.1		ng/L		107	60 - 135	3	30
DONA			37.8	45.9		ng/L		121	60 - 135	3	30
HFPO-DA (GenX)			40.0	42.3		ng/L		106	60 - 135	1	30
F-53B Major			37.4	42.5		ng/L		114	60 - 135	7	30
F-53B Minor			37.8	40.0		ng/L		106	60 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*95*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFHxA	*105*		*25 - 150*

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFHpA	*97*		*25 - 150*
13C4 PFOA	*106*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*99*		*25 - 150*
13C2 PFDoA	*96*		*25 - 150*
13C2 PFTeDA	*92*		*25 - 150*
13C3 PFBS	*108*		*25 - 150*
18O2 PFHxS	*109*		*25 - 150*
13C4 PFOS	*104*		*25 - 150*
13C8 FOSA	*107*		*10 - 150*
d3-NMeFOSAA	*103*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
d-N-MeFOSA-M	*80*		*10 - 150*
d-N-EtFOSA-M	*86*		*10 - 150*
d7-N-MeFOSE-M	*95*		*10 - 150*
d9-N-EtFOSE-M	*92*		*10 - 150*
M2-4:2 FTS	*89*		*25 - 150*
M2-6:2 FTS	*69*		*25 - 150*
M2-8:2 FTS	*81*		*25 - 150*
13C3 HFPO-DA	*109*		*25 - 150*
13C2 10:2 FTS	*80*		*25 - 150*

Lab Sample ID: MB 320-647723/1-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/18/23 06:27	01/21/23 07:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/18/23 06:27	01/21/23 07:36	1

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

Lab Sample ID: MB 320-647723/1-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/18/23 06:27	01/21/23 07:36	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/18/23 06:27	01/21/23 07:36	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/18/23 06:27	01/21/23 07:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/18/23 06:27	01/21/23 07:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/18/23 06:27	01/21/23 07:36	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/18/23 06:27	01/21/23 07:36	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/18/23 06:27	01/21/23 07:36	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/18/23 06:27	01/21/23 07:36	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/18/23 06:27	01/21/23 07:36	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/18/23 06:27	01/21/23 07:36	1
DONA	<0.40		2.0	0.40	ng/L		01/18/23 06:27	01/21/23 07:36	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/18/23 06:27	01/21/23 07:36	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:27	01/21/23 07:36	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/18/23 06:27	01/21/23 07:36	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C5 PFPeA	*93*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 PFHxA	*106*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C4 PFHpA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C4 PFOA	*101*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C5 PFNA	*100*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 PFDA	*99*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 PFUnA	*99*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 PFDoA	*83*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 PFTeDA	*91*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C3 PFBS	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
18O2 PFHxS	*110*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C4 PFOS	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C8 FOSA	*110*		*10 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d3-NMeFOSAA	*105*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d5-NEtFOSAA	*107*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d-N-MeFOSA-M	*77*		*10 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d-N-EtFOSA-M	*88*		*10 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d7-N-MeFOSE-M	*99*		*10 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
d9-N-EtFOSE-M	*95*		*10 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
M2-4:2 FTS	*95*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
M2-6:2 FTS	*79*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
M2-8:2 FTS	*80*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C3 HFPO-DA	*108*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*
13C2 10:2 FTS	*69*		*25 - 150*	*01/18/23 06:27*	*01/21/23 07:36*	*1*

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

Lab Sample ID: LCS 320-647723/2-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	46.9		ng/L		117	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	46.0		ng/L		115	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.5		ng/L		109	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	49.6		ng/L		124	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	43.8		ng/L		109	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.4		ng/L		114	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	48.2		ng/L		120	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	44.6		ng/L		111	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	48.9		ng/L		122	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	44.3		ng/L		111	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.6		ng/L		107	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	36.8		ng/L		104	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	41.5		ng/L		110	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	39.8		ng/L		109	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	43.4		ng/L		114	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	43.4		ng/L		117	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	47.3		ng/L		123	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	46.3		ng/L		120	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	43.1		ng/L		111	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.5		ng/L		104	60 - 135
NEtFOSA	40.0	44.2		ng/L		111	60 - 135
NMeFOSA	40.0	52.6		ng/L		132	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.4		ng/L		109	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.4		ng/L		98	60 - 135
NMeFOSE	40.0	44.5		ng/L		111	60 - 135
NEtFOSE	40.0	43.4		ng/L		109	60 - 135
4:2 FTS	37.5	37.1		ng/L		99	60 - 135
6:2 FTS	38.1	37.2		ng/L		98	60 - 135
8:2 FTS	38.4	37.7		ng/L		98	60 - 135
DONA	37.8	47.5		ng/L		126	60 - 135
HFPO-DA (GenX)	40.0	39.9		ng/L		100	60 - 135
F-53B Major	37.4	42.3		ng/L		113	60 - 135
F-53B Minor	37.8	43.8		ng/L		116	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90*		*25 - 150*
13C5 PFPeA	*95*		*25 - 150*

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

Lab Sample ID: LCS 320-647723/2-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647723

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*96*		*25 - 150*
13C4 PFOA	*95*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*96*		*25 - 150*
13C2 PFDoA	*84*		*25 - 150*
13C2 PFTeDA	*84*		*25 - 150*
13C3 PFBS	*105*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*102*		*10 - 150*
d3-NMeFOSAA	*98*		*25 - 150*
d5-NEtFOSAA	*103*		*25 - 150*
d-N-MeFOSA-M	*75*		*10 - 150*
d-N-EtFOSA-M	*85*		*10 - 150*
d7-N-MeFOSE-M	*93*		*10 - 150*
d9-N-EtFOSE-M	*90*		*10 - 150*
M2-4:2 FTS	*94*		*25 - 150*
M2-6:2 FTS	*74*		*25 - 150*
M2-8:2 FTS	*85*		*25 - 150*
13C3 HFPO-DA	*110*		*25 - 150*
13C2 10:2 FTS	*67*		*25 - 150*

Lab Sample ID: LCSD 320-647723/3-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647723

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	42.8		ng/L		107	60 - 135	9	30
Perfluoropentanoic acid (PFPeA)			40.0	39.0		ng/L		98	60 - 135	16	30
Perfluorohexanoic acid (PFHxA)			40.0	45.8		ng/L		115	60 - 135	5	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.3		ng/L		113	60 - 135	9	30
Perfluorooctanoic acid (PFOA)			40.0	44.3		ng/L		111	60 - 135	1	30
Perfluorononanoic acid (PFNA)			40.0	45.9		ng/L		115	60 - 135	1	30
Perfluorodecanoic acid (PFDA)			40.0	45.0		ng/L		112	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	45.0		ng/L		113	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)			40.0	42.1		ng/L		105	60 - 135	15	30
Perfluorotridecanoic acid (PFTriA)			40.0	42.5		ng/L		106	60 - 135	4	30
Perfluorotetradecanoic acid (PFTeA)			40.0	38.6		ng/L		97	60 - 135	10	30
Perfluorobutanesulfonic acid (PFBS)			35.5	39.1		ng/L		110	60 - 135	6	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	38.3		ng/L		102	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	36.8		ng/L		101	60 - 135	8	30

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

Lab Sample ID: LCSD 320-647723/3-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647723

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)			38.2	43.6		ng/L		114	60 - 135	0	30
Perfluorooctanesulfonic acid (PFOS)			37.2	42.3		ng/L		114	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)			38.5	47.0		ng/L		122	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	47.8		ng/L		124	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	48.4		ng/L		125	60 - 135	12	30
Perfluorooctanesulfonamide (FOSA)			40.0	39.4		ng/L		98	60 - 135	5	30
NEtFOSA			40.0	43.4		ng/L		109	60 - 135	2	30
NMeFOSA			40.0	48.9		ng/L		122	60 - 135	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	40.8		ng/L		102	60 - 135	6	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	43.7		ng/L		109	60 - 135	10	30
NMeFOSE			40.0	44.3		ng/L		111	60 - 135	0	30
NEtFOSE			40.0	43.9		ng/L		110	60 - 135	1	30
4:2 FTS			37.5	41.0		ng/L		109	60 - 135	10	30
6:2 FTS			38.1	39.3		ng/L		103	60 - 135	5	30
8:2 FTS			38.4	36.2		ng/L		94	60 - 135	4	30
DONA			37.8	46.9		ng/L		124	60 - 135	1	30
HFPO-DA (GenX)			40.0	40.8		ng/L		102	60 - 135	2	30
F-53B Major			37.4	44.7		ng/L		120	60 - 135	6	30
F-53B Minor			37.8	43.1		ng/L		114	60 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*94*		*25 - 150*
13C5 PFPeA	*104*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*98*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*93*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*106*		*25 - 150*
18O2 PFHxS	*105*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*106*		*10 - 150*
d3-NMeFOSAA	*100*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
d-N-MeFOSA-M	*80*		*10 - 150*
d-N-EtFOSA-M	*86*		*10 - 150*
d7-N-MeFOSE-M	*91*		*10 - 150*
d9-N-EtFOSE-M	*92*		*10 - 150*
M2-4:2 FTS	*91*		*25 - 150*
M2-6:2 FTS	*75*		*25 - 150*

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

Lab Sample ID: LCSD 320-647723/3-A
Matrix: Water
Analysis Batch: 648496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647723

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	76		25 - 150
13C3 HFPO-DA	108		25 - 150
13C2 10:2 FTS	70		25 - 150

Lab Sample ID: MB 320-648235/1-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/20/23 05:42	01/25/23 11:05	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/20/23 05:42	01/25/23 11:05	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/20/23 05:42	01/25/23 11:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/20/23 05:42	01/25/23 11:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/20/23 05:42	01/25/23 11:05	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/20/23 05:42	01/25/23 11:05	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/20/23 05:42	01/25/23 11:05	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/25/23 11:05	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/20/23 05:42	01/25/23 11:05	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/20/23 05:42	01/25/23 11:05	1
DONA	<0.40		2.0	0.40	ng/L		01/20/23 05:42	01/25/23 11:05	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/20/23 05:42	01/25/23 11:05	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/25/23 11:05	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/20/23 05:42	01/25/23 11:05	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150	01/20/23 05:42	01/25/23 11:05	1

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

Lab Sample ID: MB 320-648235/1-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648235

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	98		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 PFHxA	102		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C4 PFHpA	98		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C4 PFOA	98		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C5 PFNA	93		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 PFDA	88		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 PFUnA	100		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 PFDoA	88		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 PFTeDA	94		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C3 PFBS	89		25 - 150	01/20/23 05:42	01/25/23 11:05	1
18O2 PFHxS	92		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C4 PFOS	89		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C8 FOSA	90		10 - 150	01/20/23 05:42	01/25/23 11:05	1
d3-NMeFOSAA	92		25 - 150	01/20/23 05:42	01/25/23 11:05	1
d5-NEtFOSAA	101		25 - 150	01/20/23 05:42	01/25/23 11:05	1
d-N-MeFOSA-M	72		10 - 150	01/20/23 05:42	01/25/23 11:05	1
d-N-EtFOSA-M	74		10 - 150	01/20/23 05:42	01/25/23 11:05	1
d7-N-MeFOSE-M	88		10 - 150	01/20/23 05:42	01/25/23 11:05	1
d9-N-EtFOSE-M	83		10 - 150	01/20/23 05:42	01/25/23 11:05	1
M2-4:2 FTS	101		25 - 150	01/20/23 05:42	01/25/23 11:05	1
M2-6:2 FTS	97		25 - 150	01/20/23 05:42	01/25/23 11:05	1
M2-8:2 FTS	93		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C3 HFPO-DA	107		25 - 150	01/20/23 05:42	01/25/23 11:05	1
13C2 10:2 FTS	80		25 - 150	01/20/23 05:42	01/25/23 11:05	1

Lab Sample ID: LCS 320-648235/2-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	50.3		ng/L		126	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.9		ng/L		115	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	47.5		ng/L		119	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	46.3		ng/L		116	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.7		ng/L		114	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.9		ng/L		110	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.4		ng/L		103	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	49.5		ng/L		124	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	45.3		ng/L		113	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	42.0		ng/L		118	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	45.4		ng/L		121	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.7		ng/L		106	60 - 135

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

Lab Sample ID: LCS 320-648235/2-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	46.7		ng/L		122	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	45.4		ng/L		122	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	46.4		ng/L		121	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	47.1		ng/L		122	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	43.4		ng/L		112	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	42.9		ng/L		107	60 - 135
NEtFOSA	40.0	45.6		ng/L		114	60 - 135
NMeFOSA	40.0	49.1		ng/L		123	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	48.3		ng/L		121	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.7		ng/L		107	60 - 135
NMeFOSE	40.0	44.1		ng/L		110	60 - 135
NEtFOSE	40.0	47.3		ng/L		118	60 - 135
4:2 FTS	37.5	35.2		ng/L		94	60 - 135
6:2 FTS	38.1	39.5		ng/L		104	60 - 135
8:2 FTS	38.4	45.9		ng/L		119	60 - 135
DONA	37.8	51.1		ng/L		135	60 - 135
HFPO-DA (GenX)	40.0	40.4		ng/L		101	60 - 135
F-53B Major	37.4	47.4		ng/L		127	60 - 135
F-53B Minor	37.8	47.5		ng/L		126	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFHxA	*104*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C4 PFOA	*99*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*94*		*25 - 150*
13C2 PFUnA	*105*		*25 - 150*
13C2 PFDoA	*94*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*88*		*25 - 150*
18O2 PFHxS	*100*		*25 - 150*
13C4 PFOS	*88*		*25 - 150*
13C8 FOSA	*95*		*10 - 150*
d3-NMeFOSAA	*95*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*71*		*10 - 150*
d-N-EtFOSA-M	*76*		*10 - 150*
d7-N-MeFOSE-M	*92*		*10 - 150*
d9-N-EtFOSE-M	*85*		*10 - 150*
M2-4:2 FTS	*99*		*25 - 150*
M2-6:2 FTS	*97*		*25 - 150*

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

Lab Sample ID: LCS 320-648235/2-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648235

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	86		25 - 150
13C3 HFPO-DA	111		25 - 150
13C2 10:2 FTS	81		25 - 150

Lab Sample ID: LCSD 320-648235/3-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	44.7		ng/L		112	60 - 135	12	30
Perfluoropentanoic acid (PFPeA)			40.0	43.1		ng/L		108	60 - 135	6	30
Perfluorohexanoic acid (PFHxA)			40.0	43.6		ng/L		109	60 - 135	9	30
Perfluoroheptanoic acid (PFHpA)			40.0	44.4		ng/L		111	60 - 135	7	30
Perfluorooctanoic acid (PFOA)			40.0	42.3		ng/L		106	60 - 135	9	30
Perfluorononanoic acid (PFNA)			40.0	45.5		ng/L		114	60 - 135	0	30
Perfluorodecanoic acid (PFDA)			40.0	45.5		ng/L		114	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)			40.0	43.7		ng/L		109	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)			40.0	45.9		ng/L		115	60 - 135	8	30
Perfluorotridecanoic acid (PFTriA)			40.0	45.3		ng/L		113	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.3		ng/L		103	60 - 135	3	30
Perfluorobutanesulfonic acid (PFBS)			35.5	35.3		ng/L		100	60 - 135	17	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	44.6		ng/L		119	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.1		ng/L		105	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	45.0		ng/L		118	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)			37.2	42.2		ng/L		114	60 - 135	7	30
Perfluorononanesulfonic acid (PFNS)			38.5	46.5		ng/L		121	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	45.9		ng/L		119	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	41.0		ng/L		106	60 - 135	6	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.1		ng/L		108	60 - 135	0	30
NEtFOSA			40.0	44.0		ng/L		110	60 - 135	4	30
NMeFOSA			40.0	47.2		ng/L		118	60 - 135	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	45.7		ng/L		114	60 - 135	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	43.6		ng/L		109	60 - 135	2	30
NMeFOSE			40.0	44.4		ng/L		111	60 - 135	1	30
NEtFOSE			40.0	43.7		ng/L		109	60 - 135	8	30
4:2 FTS			37.5	34.9		ng/L		93	60 - 135	1	30
6:2 FTS			38.1	41.4		ng/L		109	60 - 135	5	30
8:2 FTS			38.4	48.8		ng/L		127	60 - 135	6	30

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

Lab Sample ID: LCSD 320-648235/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649279
Prep Batch: 648235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA			37.8	48.1		ng/L		127	60 - 135	6	30
HFPO-DA (GenX)			40.0	40.0		ng/L		100	60 - 135	1	30
F-53B Major			37.4	45.8		ng/L		123	60 - 135	3	30
F-53B Minor			37.8	47.1		ng/L		125	60 - 135	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*101*		*25 - 150*
13C2 PFHxA	*105*		*25 - 150*
13C4 PFHpA	*101*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*94*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*97*		*25 - 150*
18O2 PFHxS	*99*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
13C8 FOSA	*88*		*10 - 150*
d3-NMeFOSAA	*94*		*25 - 150*
d5-NEtFOSAA	*97*		*25 - 150*
d-N-MeFOSA-M	*71*		*10 - 150*
d-N-EtFOSA-M	*75*		*10 - 150*
d7-N-MeFOSE-M	*89*		*10 - 150*
d9-N-EtFOSE-M	*87*		*10 - 150*
M2-4:2 FTS	*118*		*25 - 150*
M2-6:2 FTS	*96*		*25 - 150*
M2-8:2 FTS	*76*		*25 - 150*
13C3 HFPO-DA	*110*		*25 - 150*
13C2 10:2 FTS	*94*		*25 - 150*

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-15
Lab Sample ID: 500-228026-2
Date Collected: 01/09/23 14:53
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 04:21

Client Sample ID: MW-209
Lab Sample ID: 500-228026-4
Date Collected: 01/10/23 08:17
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 11:56
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 04:42

Client Sample ID: EB-02
Lab Sample ID: 500-228026-5
Date Collected: 01/09/23 16:05
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 04:52

Client Sample ID: FB-02
Lab Sample ID: 500-228026-6
Date Collected: 01/09/23 16:10
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 05:03

Client Sample ID: MW-235
Lab Sample ID: 500-228026-7
Date Collected: 01/10/23 09:27
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 05:13

Client Sample ID: MW-236
Lab Sample ID: 500-228026-8
Date Collected: 01/10/23 10:10
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 05:44

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: PZ-226
Lab Sample ID: 500-228026-9
Date Collected: 01/10/23 11:21
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 05:54

Client Sample ID: MW-226
Lab Sample ID: 500-228026-10
Date Collected: 01/10/23 12:22
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 06:45

Client Sample ID: AMEC_MW-16
Lab Sample ID: 500-228026-11
Date Collected: 01/10/23 14:21
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 06:04
Total/NA	Prep	3535	DL		647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)	DL	5	651580	CV	EET SAC	02/03/23 10:50

Client Sample ID: AMEC_MW-16A
Lab Sample ID: 500-228026-12
Date Collected: 01/10/23 14:55
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 06:14

Client Sample ID: FB-04
Lab Sample ID: 500-228026-14
Date Collected: 01/10/23 15:25
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 06:35

Client Sample ID: EB-04
Lab Sample ID: 500-228026-15
Date Collected: 01/10/23 16:00
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 12:49
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648813	D1R	EET SAC	01/23/23 17:10

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: AMEC_MW-14
Lab Sample ID: 500-228026-16
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648813	D1R	EET SAC	01/23/23 18:01

Client Sample ID: AMEC_MW-17
Lab Sample ID: 500-228026-17
Date Collected: 01/11/23 08:40
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 08:28

Client Sample ID: MW-219
Lab Sample ID: 500-228026-18
Date Collected: 01/11/23 09:48
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 13:15

Client Sample ID: MW-121
Lab Sample ID: 500-228026-19
Date Collected: 01/11/23 10:40
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 13:41
Total/NA	Analysis	8260B	DL	10	694064	PSP	EET CHI	01/16/23 14:07

Client Sample ID: MW-12
Lab Sample ID: 500-228026-20
Date Collected: 01/11/23 11:46
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648813	D1R	EET SAC	01/23/23 18:12
Total/NA	Prep	3535	DL		647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)	DL	50	651612	JY1	EET SAC	02/03/23 17:34

Client Sample ID: MW-12 DUP
Lab Sample ID: 500-228026-21
Date Collected: 01/11/23 11:48
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648813	D1R	EET SAC	01/23/23 18:22
Total/NA	Prep	3535	DL		647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)	DL	50	651612	JY1	EET SAC	02/03/23 17:44

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-06
Lab Sample ID: 500-228026-22
Date Collected: 01/11/23 12:09
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 08:38

Client Sample ID: EB-06
Lab Sample ID: 500-228026-23
Date Collected: 01/11/23 12:12
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 14:03
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 08:48

Client Sample ID: MW-201
Lab Sample ID: 500-228026-24
Date Collected: 01/09/23 13:01
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 08:59

Client Sample ID: MW-204
Lab Sample ID: 500-228026-25
Date Collected: 01/09/23 13:50
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 09:09

Client Sample ID: PZ-206
Lab Sample ID: 500-228026-26
Date Collected: 01/09/23 14:35
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 09:40

Client Sample ID: MW-213
Lab Sample ID: 500-228026-27
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 15:00
Total/NA	Analysis	8260B	DL	10	694064	PSP	EET CHI	01/16/23 15:26
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 10:52

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-213 DUP
Lab Sample ID: 500-228026-28
Date Collected: 01/09/23 15:20
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 15:52
Total/NA	Analysis	8260B	DL	10	694064	PSP	EET CHI	01/16/23 16:18
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 11:02

Client Sample ID: MW-82
Lab Sample ID: 500-228026-29
Date Collected: 01/09/23 16:15
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 16:45

Client Sample ID: FB-01
Lab Sample ID: 500-228026-30
Date Collected: 01/09/23 16:25
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 09:50

Client Sample ID: EB-01
Lab Sample ID: 500-228026-31
Date Collected: 01/09/23 16:30
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 17:11
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 10:00

Client Sample ID: AECOM MW-19
Lab Sample ID: 500-228026-32
Date Collected: 01/10/23 07:55
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 17:37

Client Sample ID: MW-17
Lab Sample ID: 500-228026-33
Date Collected: 01/10/23 08:35
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 18:03

Lab Chronicle

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

Job ID: 500-228026-1

Client Sample ID: PZ-214
Date Collected: 01/10/23 09:25
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 10:11

Client Sample ID: MW-8
Date Collected: 01/10/23 10:25
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 18:30

Client Sample ID: MW-3
Date Collected: 01/10/23 11:30
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 14:26

Client Sample ID: MW-37
Date Collected: 01/10/23 12:55
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 14:49

Client Sample ID: MW-19
Date Collected: 01/10/23 13:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 15:12

Client Sample ID: MW-48
Date Collected: 01/10/23 14:45
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)		1	648496	S1M	EET SAC	01/21/23 10:21
Total/NA	Prep	3535	DL		647723	EJR	EET SAC	01/18/23 06:27
Total/NA	Analysis	537 (modified)	DL	10	648813	D1R	EET SAC	01/23/23 17:20

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-9
Lab Sample ID: 500-228026-40
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 15:35
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 13:49
Total/NA	Prep	3535	DL		648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)	DL	10	649945	K1S	EET SAC	01/27/23 14:38

Client Sample ID: MW-9 DUP
Lab Sample ID: 500-228026-41
Date Collected: 01/10/23 15:40
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 15:58
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		10	649945	K1S	EET SAC	01/27/23 14:49

Client Sample ID: EB-03
Lab Sample ID: 500-228026-42
Date Collected: 01/10/23 16:10
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 16:21
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 14:10

Client Sample ID: FB-03
Lab Sample ID: 500-228026-43
Date Collected: 01/10/23 16:15
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 14:20

Client Sample ID: PZ-200
Lab Sample ID: 500-228026-44
Date Collected: 01/11/23 08:00
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649743	RS1	EET SAC	01/26/23 21:03

Lab Chronicle

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

Job ID: 500-228026-1

Client Sample ID: MW-200
Date Collected: 01/11/23 08:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 14:40

Client Sample ID: MW-5
Date Collected: 01/11/23 08:55
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-46
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	694276	W1T	EET CHI	01/17/23 16:44
Total/NA	Analysis	8260B	DL	20	694276	W1T	EET CHI	01/17/23 17:07

Client Sample ID: MW-31
Date Collected: 01/11/23 09:40
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-47
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 17:30

Client Sample ID: MW-16
Date Collected: 01/11/23 10:20
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 17:53

Client Sample ID: MW-15
Date Collected: 01/11/23 11:00
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	694276	W1T	EET CHI	01/17/23 18:16

Client Sample ID: EB-05
Date Collected: 01/11/23 11:30
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 19:02
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649743	RS1	EET SAC	01/26/23 19:00

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-1
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: FB-05
Lab Sample ID: 500-228026-51
Date Collected: 01/11/23 11:35
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 15:32

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-228026-52
Date Collected: 01/11/23 00:00
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 19:25

Client Sample ID: MW-209 DUP
Lab Sample ID: 500-228026-53
Date Collected: 01/10/23 08:20
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 19:48
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:42
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 15:42

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: 500-228026-1
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

Chain of Custody Record

eurofins

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking Nos:	COC No: 500-108575-45177 1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026

Address: 234 W Florida Street Fifth Floor	Due Date Requested:	Analysis 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#:	

500-228026 COC

Preservation Codes

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	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)	8260B VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	A		
1 MW-228	1-9-2023	1322	G	Water	N	N	X			
2 AMEC_MW-15	1-9-2023	1453		Water	N	N	X			
3 MW-218	1-9-2023	1550		Water	N	N	X			
4 MW-209	1-10-2023	0817		Water	N	N	X	X		
5 EB-02	1-9-2023	1605		Water	N	N	X			
6 FB-02	1-9-2023	1610		Water	N	N	X			
7 MW-235	1-10-2023	0927		Water	N	N	X			
8 MW-238	1-10-2023	1010		Water	N	N	X			
9 PZ-226	1-10-2023	1121		Water	N	N	X			
10 MW-226	1-10-2023	1222		Water	N	N	X			
11 AMEC-MW16	1-10-2023	1421		Water	N	N	X			

1-11-23

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
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	Date/Time: 1.12.23 1700	Company: Eurofins	Received by:	Date/Time: 1/13/23 0930	Company: EETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

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

Cooler Temperatures C and Other Remarks: 2.8 → 1.9

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: Sarah Jo Marchetto	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500 108575-45177 4
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 2 of 10
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days):			
State, Zip: WI 53204	Compliance Project: ☒ Yes ☐ 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 Ammonia, 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)	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A		
12	AMEC_MW-16A	1-10-23	1455	G	Water			X			
13	MW-217	1-10-23	1537	G	Water			X	X		
14	FB-04	1-10-23	1525		Water			X			
15	EB-04	1-10-23	1600		Water			X	X		
16	AMEC-MW-14	1-11-23	0800		Water			X			
17	AMEC_MW-17		0840		Water			X			
18	MW-219		0948		Water				X		
19	MW-121		1040		Water				X		
20	MW-12		1146		Water			X			
21	MW-12 Dup		1148		Water			X			
22					Water						

1-11-23

1/13/23

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		1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/13/23 0930	EBTH
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) and Other Remarks:

Ver: 06/08/2021

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: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-108575-45177.3
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 3 of 10 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-228026
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):			
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 169019647	Project #: 50018382			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A		
22	FB-06	1-11-23	1209	G	Water	N	N	X			
23	EB-06	1-21-23	1212	G	Water	N	N	X	X		
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						

1-11-23

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	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	1.12.23 1700	Eurofins		1/13/23 0930	ERTH
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: 06/08/2021

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 4 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901 3510(Tel)	PO #: 1690019647			
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
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals) Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A	D	D	D	D	D	N		
24	MW-201	1 9 23	1301	G	Water			X									
25	MW-204		1350		Water			X									
26	~~MW~~ PZ-206		1435		Water			X									
27	MW-213		1520		Water			X	X								
28	MW-213 DUP		1520		Water			X	X								
29	MW-82		1615		Water				X								
30	FB-01		1625		Water			X									
31	EB-01		1630		Water			X	X								
32	AECOM MW-19	1.10.23	755		Water				X								
33	MW-17		835		Water				X								
34	PZ-214		925		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		1.12.23 1000	RAMBOLL		1.12.23 1000	Eurofins
2	Relinquished by	Date/Time 1.12.23 1700	Company Eurofins	Received by	Date/Time 1/13/23 0930	Company FEDEX
3	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

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

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	D. GLASFORD	Fredrick Sandie		500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262 901-3510(Tel)	PO #: 1690019647			
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
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code				N	A	D	D	D	D	D	N		
35	MW-8	1-10-23	1025	G	Water				X								
36	MW-3		1130		Water				X								
37	MW-37		1255		Water				X								
38	MW-19		1340		Water				X								
39	MW-48		1445		Water			X									
40	MW-9		1540		Water			X	X								
41	MW-9 DUP		1540		Water			X	X								
42	EB-03		1610		Water			X	X								
43	FB-03		1615		Water			X									
44	PZ-200	1-11-23	800		Water			X									
45	MW-200		840		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		1-12-23 1000	Ramboll		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/13/23 0930	EBTA
3						

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

Cooler Temperature(s) °C and Other Remarks

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

Chain of Custody Record

eurofins

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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, 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)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
	Preservation Code:							N	A	D	D	D	D	D	N		
46	MW-5	1011.23	855	G	Water				X								
47	MW-31		940		Water				X								
48	MW-16		1020		Water				X								
49	MW-15		1100		Water				X								
50	EB-05		1130		Water			X	X								
51	FB-05		1135		Water			X									
52	TRIP BLANK	—	—		Water				X								
53	MW 209 DUP	1.10.23	820	G	Water			X	X								
54	MW-217 DUP	1-10 23	1539		Water			X	X								
					Water												
					Water												

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

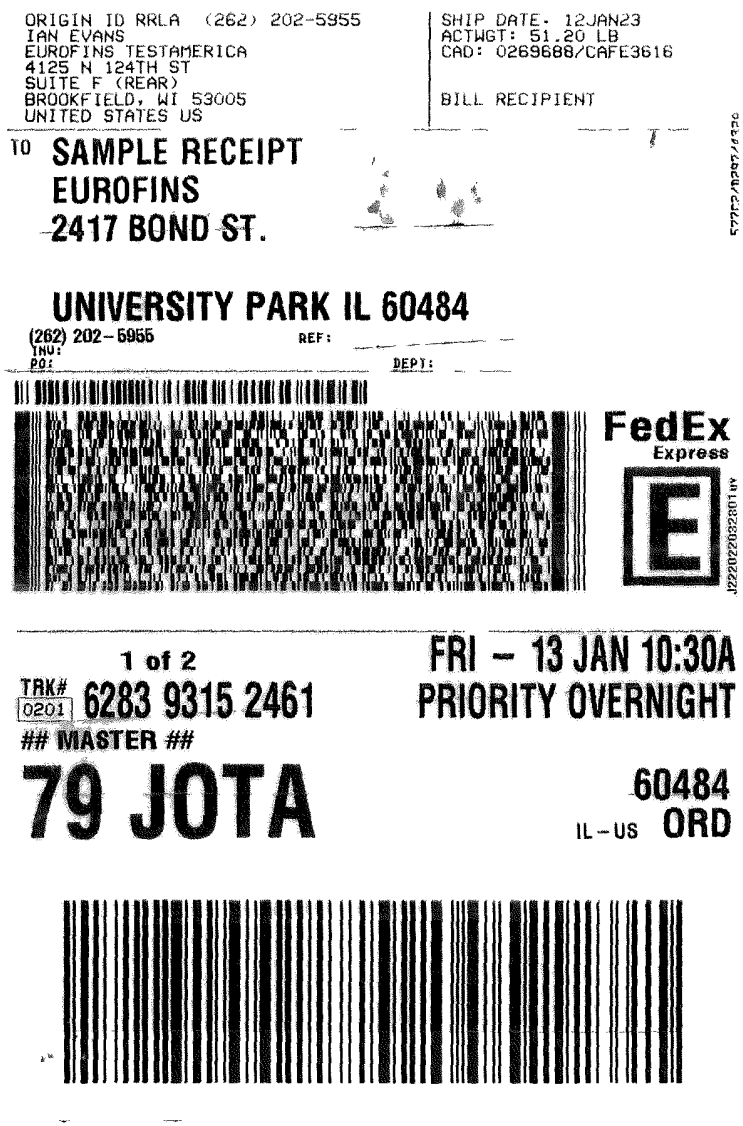
Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
	1.13.23 1700	Eurofins		1/13/23 0930	EBETA

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

Ver 01/16/2019

500-228026 Waybi



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: 12JAN23
ACTWGT: 51.20 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484
(262) 202-5955

INV:
PO:
REF:
DEPT:

FedEx
Express

1 of 2

TRK# 0201 6283 9315 2461

FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT

MASTER

79 JOTA

60484
IL-US ORD

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: 500-108575-45177.1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	A				
MW-228	1-9-2023	1322	G	Water	N	N	X			
AMEC_MW-15	1-9-2023	1453		Water	N	N	X			
MW-218	1-9-2023	1550	-	Water	N	N	X			
MW-209	1-10-2023	0817		Water	N	N	X	X		
EB-02	1-9-2023	1605		Water	N	N	X			
FB-02	1-9-2023	1610		Water	N	N	X			
MW-235	1-10-2023	0927		Water	N	N	X			
MW-238	1-10-2023	1010		Water	N	N	X			
PZ-226	1-10-2023	1121		Water	N	N	X			
MW-226	1-10-2023	1222		Water	N	N	X			
AMEC-MW16	1-10-2023	1421		Water	N	N	X			

1-11-23

500-228026 Chain of Custody

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		1.12.23 1000	RAMBOLL		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/16/23 850	EE Tech
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2077055

Cooler Temperature(s) °C and Other Remarks: 3.1

Ver: 06/08/2021

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 Marchetti	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-108575-45177.4
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 2 of 10
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 Dodecanydrate, 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)	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
AMEC_MW-16A	1-10-23	1454	G	Water			X			
MW-217	1-10-23	1534	G	Water			X	X		
FB-04	1-10-23	1525		Water			X			
EB-04	1-10-23	1600		Water			X	X		
AMEC-MW-14	1-11-23	0800		Water			X			
AMEC_MW-17		0840		Water			X			
MW-219		0948		Water				X		
MW-121		1040		Water				X		
MW-12		1146		Water			X			
MW-12 Dup		1148		Water			X			
				Water						

1-11-23

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		1.12.23 1000	RAMBOLL		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/6/23 850	ET SAC
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2077255

Cooler Temperature(s) °C and Other Remarks: 5.1

Ver: 06/08/2021

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: 500-108575-45177.3
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 3 of 10
Company: Ramboll US Corporation	PWSID:			Job #:

Address: 234 W. Florida Street Fifth Floor	Due Date Requested:	Analysis 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#:	

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)	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
FB-06	1-11-23	1209	G	Water	N	N	X			
EB-06	1-21-23	1212	G	Water	N	N	X	X		
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

1-11-23

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		1-12-23 1000	Ramboll		1.12.23 1000	Eurofins
2	Relinquished by:	1.12.23 1700	Eurofins	Received by:	1/16/23 840	ET SAC
3	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.: 2077255

Cooler Temperature(s) °C and Other Remarks: 3.1

Ver: 06/08/2021

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GRAFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456.1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page: Page 4 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	PFAS, Extended List (36 Analytes) - PFC_IDA_WI	VOCs - 8260B	6020A (Metals) Al	Sb	As	Cr	Pb	PCBs - 8082A	Total Number of containers	Special Instructions/Note:
Preservation Code:						N	A	D	D	D	D	D	N		
MW-201	1.9.23	1301	G	Water		X									
MW-204		1350		Water		X									
~~MW~~ PZ-206		1435		Water		X									
MW-213		1520		Water		X	X								
MW-213 DUP		1520		Water		X	X								
MW-82		1615		Water			X								
FB-01		1625		Water		X									
EB-01		1630		Water		X	X								
AECOM MW-19	1.10.23	755		Water			X								
MW-17		835		Water			X								
PZ-24		925		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: 1.12.23 1000	Company: RAMBOLL	Received by:	Date/Time: 1.12.23 1000	Company: Eurofins
Relinquished by:	Date/Time: 1.12.23 1700	Company: Eurofins	Received by:	Date/Time: 1/16/23 850	Company: ETS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2077255

Cooler Temperature(s) °C and Other Remarks: 3.7

Ver: 01/16/2019

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456.1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	PFAS, Extended List (36 Analytes) - PFC_IDA_WI	VOCs - 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs - 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N	A	D	D	D	D	D	N	X	
MW-8	1-10-23	1025	G	Water			X								
MW-3		1130		Water			X								
MW-37		1255		Water			X								
MW-19		1340		Water			X								
MW-48		1445		Water		X									
MW-9		1540		Water		X	X								
MW-9 DUP		1540		Water		X	X								
EB-03		1610		Water		X	X								
FB-03		1615		Water		X									
P2-200	1-11-23	800		Water		X									
MW-200		840		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		1-12-23 1000	Ramboll		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/16/23 850	ET Sac
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2077255
Cooler Temperature(s) °C and Other Remarks: 3.7

Ver: 01/16/2019

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456.1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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; 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)	PFAS, Extended List (36 Analytes) - PFC_IDA_WI	VOCs - 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs - 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N	A	D	D	D	D	D	N	X	
MW-5	10.11.23	855	G	Water			X								
MW-31		940		Water			X								
MW-16		1020		Water			X								
MW-15		1100		Water			X								
EB-05		1130		Water		X	X								
FB-05		1135		Water		X									
TRIP BLANK	—	—		Water			X								
MW 209 DUP	1.10.23	820	G	Water		X	X								
MW-217 DUP	1-10.23	1539		Water		X	X								
				Water											
				Water											

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1-12-23 1000	Ramboll		1.12.23 1000	Eurofins
2		1.12.23 1700	Eurofins		1/16/23 850	FEDEX
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2077755

Cooler Temperature(s) °C and Other Remarks: 3.7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-228026-1
SDG Number:

Login Number: 228026
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	1.9
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: 500-228026-1
SDG Number:

Login Number: 228026
List Number: 2
Creator: Pratali, Sandra A

List Source: Eurofins Sacramento
List Creation: 01/16/23 05:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2077255
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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

500-228026 Field Sheet

Tracking # : 6283 9365 2440

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: C10 Corr. Factor: (+ / -) _____ °C

Ice ~ Wet _____ Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: 1 of 2

Temp Observed: 2.8 °C Corrected: 2.5 °C

From: Temp Blank ☐ Sample ☑

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

Initials: JF Date: 1/13/23

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: GP Date: 1.16.23

Notes: COC and label say 1455, but sample bottle was sampled at 1452 for AMEC-16A DAN 1/16/23
SAMPLE 12 ↑
SAMPLE 42 'MW-9' SHOULD BE 'MW-9 DUP'

SAMPLE 10 1 OF 2 250 LABELED 'MW-223'

RECD 2 HCL VOA
NO SAMPLE ID. COMMENT SECTION ON LABEL SAYS 'HCL TRIP BLANKS'

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: GP Date: 1.16.23
WR3-17-A

eurofins | Environment Testing TestAmerica

Sacramento Sample Receiving Notes

Place Field Sheet Label Here

Tracking #: 0283 9315 2450

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: 410 Corr. Factor: (+ / -) _____ °C

Ice — Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2077255

Cooler ID: —

Temp Observed: 3.1 °C Corrected: 3.1 °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: SP Date: 1/16/23

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")

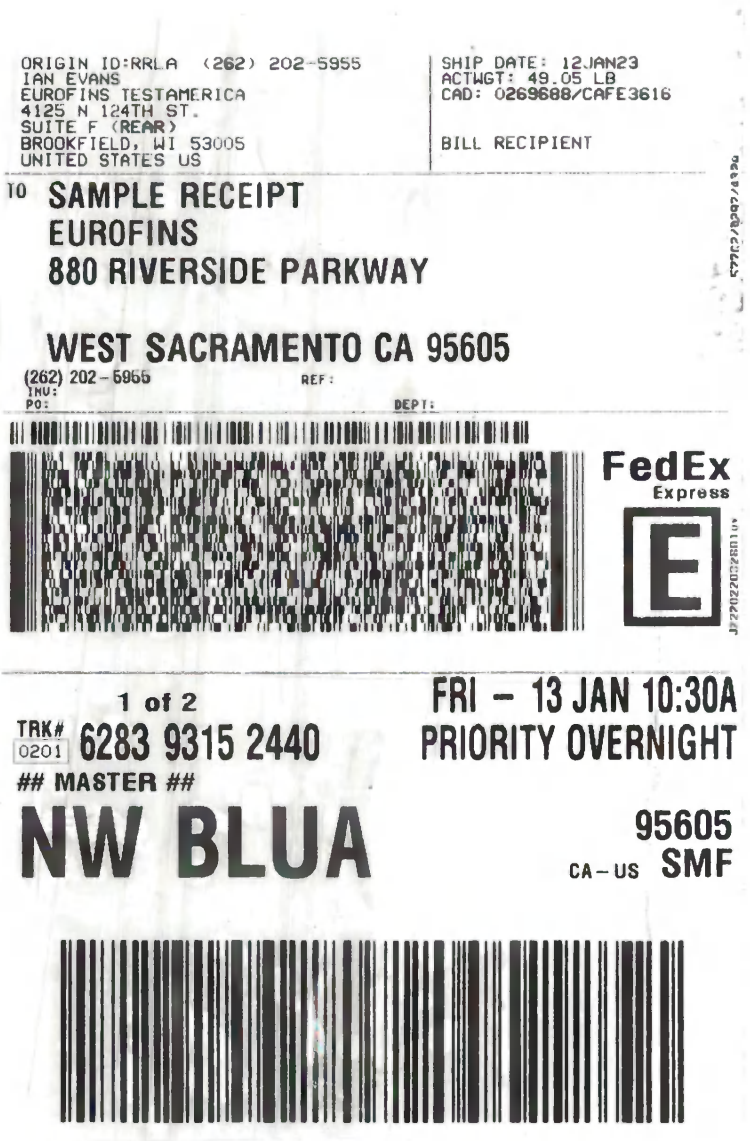
Initials: GP Date: 1·16·23

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: GP Date: 1·16·23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IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 12JAN23
ACTWGT: 49.05 LB
CAD: 0269688/CAFE3616
BILL RECIPIENT
TO SAMPLE RECEIPT
EUROFINS
880 RIVERSIDE PARKWAY
WEST SACRAMENTO CA 95605
(262) 202-5955
INV:
PO:
REF:
DEPT:
FedEx
Express
1 of 2
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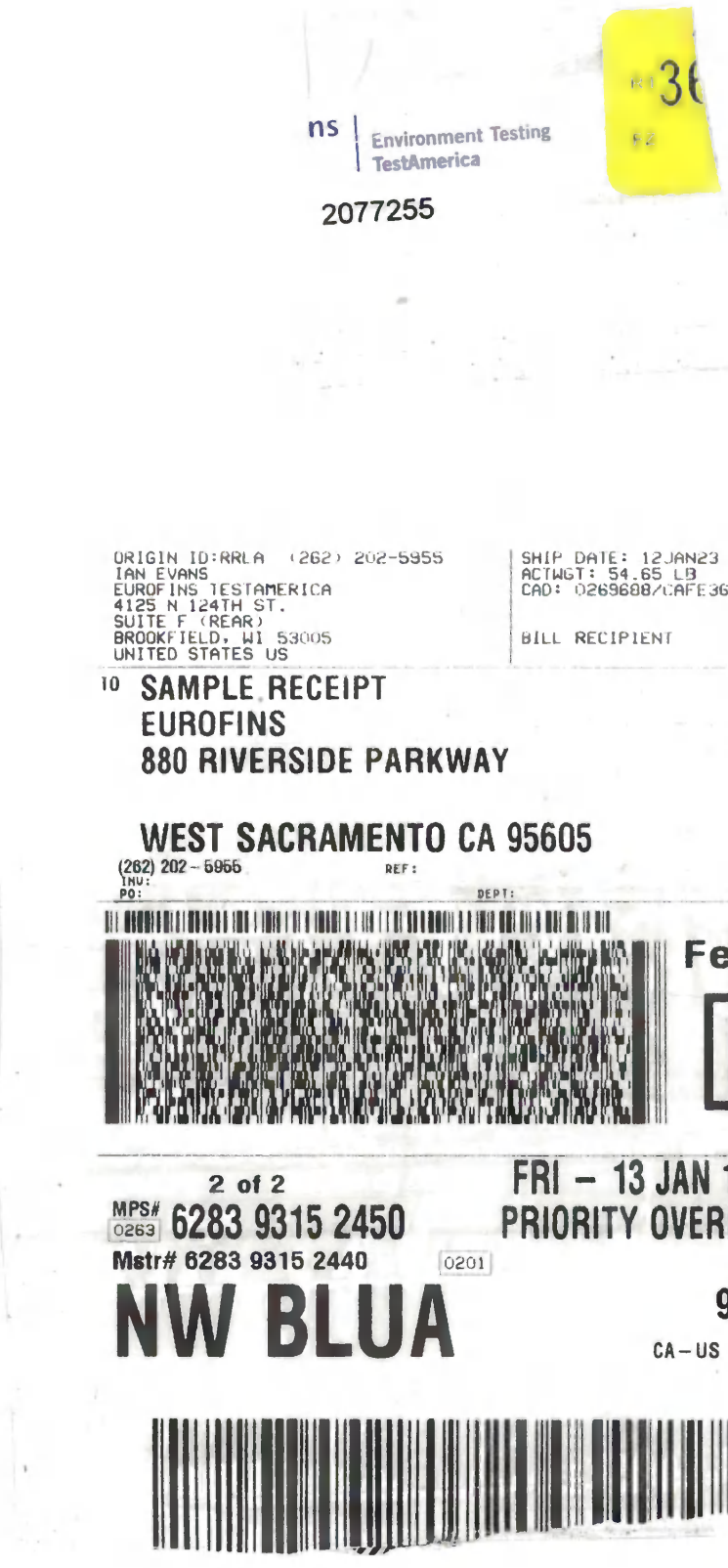
MASTER
NW BLUA
FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT
95605
CA-US SMF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Environment Testing
TestAmerica
2077255
ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 12JAN23
ACTWGT: 54.65 LB
CAD: 0269808/CAFE3616
BILL RECIPIENT
10 SAMPLE RECEIPT
EUROFINS
880 RIVERSIDE PARKWAY
WEST SACRAMENTO CA 95605
(262) 202-6956
REF:
INV:
PO:
DEPT:
FedEx
Express
2 of 2
MPS# 0263 6283 9315 2450
Mstr# 6283 9315 2440
0201
FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT
NW BLUA
95605
CA-US SMF

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)
500-228026-2	AMEC_MW-15	88	96	101	101	98	95	97	98
500-228026-4	MW-209	88	113	108	106	104	103	94	100
500-228026-5	EB-02	110	116	115	112	108	114	110	115
500-228026-6	FB-02	102	104	113	103	102	104	91	95
500-228026-7	MW-235	96	120	128	111	107	100	110	107
500-228026-8	MW-236	78	103	107	107	100	105	100	108
500-228026-9	PZ-226	93	108	105	104	97	95	99	103
500-228026-10	MW-226	108	101	111	115	104	107	104	115
500-228026-11	AMEC_MW-16	68	92	101	105	104	98	105	110
500-228026-11 - DL	AMEC_MW-16					102			
500-228026-12	AMEC_MW-16A	81	101	94	103	105	108	95	101
500-228026-14	FB-04	98	106	106	106	102	104	108	105
500-228026-15	EB-04	94	106	110	101	110	104	108	109
500-228026-16	AMEC_MW-14	69	89	94	96	95	100	98	84
500-228026-17	AMEC_MW-17	93	106	110	98	101	106	102	109
500-228026-20	MW-12		16 *5-	54	73	105	160 *5+	251 *5+	215 *5+
500-228026-20 - DL	MW-12	24 *5-							
500-228026-21	MW-12 DUP		18 *5-	53	71	102	144	230 *5+	194 *5+
500-228026-21 - DL	MW-12 DUP	10 *5-							
500-228026-22	FB-06	101	103	106	105	104	105	101	115
500-228026-23	EB-06	103	102	113	105	105	102	102	113
500-228026-24	MW-201	80	103	99	102	101	103	105	99
500-228026-25	MW-204	83	106	105	102	96	98	101	93
500-228026-26	PZ-206	88	112	112	105	108	110	100	104
500-228026-27	MW-213	77	106	106	108	104	112	113	110
500-228026-28	MW-213 DUP	85	113	115	112	111	121	114	110
500-228026-30	FB-01	107	103	114	115	109	109	111	110
500-228026-31	EB-01	103	115	112	110	103	112	114	119
500-228026-34	PZ-214	74	98	101	106	104	110	106	106
500-228026-39	MW-48	68	98	104	109		107	100	106
500-228026-39 - DL	MW-48					97			
500-228026-40	MW-9	31	44	72	93	101	122	165 *5+	175 *5+
500-228026-40 - DL	MW-9					94			
500-228026-41	MW-9 DUP	51	63	99	102	103	117	130	120
500-228026-42	EB-03	84	105	101	101	99	106	104	105
500-228026-43	FB-03	86	103	102	108	99	104	102	105
500-228026-44	PZ-200	83	104	111	125	105	111	102	102
500-228026-45	MW-200	100	114	98	107	100	109	99	95
500-228026-50	EB-05	101	100	90	99	97	95	98	105
500-228026-51	FB-05	99	97	100	109	111	111	95	101
500-228026-53	MW-209 DUP	75	90	92	86	98	95	82	88
LCS 320-647722/2-A	Lab Control Sample	84	85	102	97	100	93	96	97
LCS 320-647723/2-A	Lab Control Sample	90	95	102	96	95	102	99	96
LCS 320-648235/2-A	Lab Control Sample	99	96	104	100	99	99	94	105
LCSD 320-647722/3-A	Lab Control Sample Dup	95	96	105	97	106	102	99	99
LCSD 320-647723/3-A	Lab Control Sample Dup	94	104	98	100	98	98	99	97
LCSD 320-648235/3-A	Lab Control Sample Dup	103	101	105	101	102	92	96	106
MB 320-647722/1-A	Method Blank	112	114	132	112	108	117	115	120
MB 320-647723/1-A	Method Blank	93	93	106	101	101	100	99	99

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)
MB 320-648235/1-A	Method Blank	95	98	102	98	98	93	88	100

		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)
500-228026-2	AMEC_MW-15	82	79	109	104	90	105	95	95
500-228026-4	MW-209	81	85	114	104	96	114	96	108
500-228026-5	EB-02	107	102	116	117	107	113	123	117
500-228026-6	FB-02	80	82	106	111	98	104	89	89
500-228026-7	MW-235	93	92	130	114	104	126	102	113
500-228026-8	MW-236	93	89	134	110	102	114	105	108
500-228026-9	PZ-226	86	95	118	113	103	112	100	106
500-228026-10	MW-226	104	99	126	120	112	125	105	113
500-228026-11	AMEC_MW-16	92	91	134	109	104	119	103	110
500-228026-11 - DL	AMEC_MW-16								
500-228026-12	AMEC_MW-16A	83	86	117	100	93	114	96	101
500-228026-14	FB-04	100	94	103	110	107	117	106	110
500-228026-15	EB-04	99	98	116	117	109	112	109	111
500-228026-16	AMEC_MW-14	72	72	114	89	86	102	82	85
500-228026-17	AMEC_MW-17	97	92	120	108	106	120	103	103
500-228026-20	MW-12	186 *5+	107	142	134	226 *5+	213 *5+	117	161 *5+
500-228026-20 - DL	MW-12								
500-228026-21	MW-12 DUP	163 *5+	94	132	133	208 *5+	200 *5+	109	145
500-228026-21 - DL	MW-12 DUP								
500-228026-22	FB-06	103	100	114	118	110	115	111	121
500-228026-23	EB-06	92	99	112	114	102	108	101	110
500-228026-24	MW-201	92	89	128	109	100	109	102	102
500-228026-25	MW-204	75	80	122	98	89	113	91	99
500-228026-26	PZ-206	91	89	119	103	100	117	100	98
500-228026-27	MW-213	109	102	124	113	125	127	98	107
500-228026-28	MW-213 DUP	104	100	134	108	111	125	98	110
500-228026-30	FB-01	95	104	124	116	111	119	98	104
500-228026-31	EB-01	100	109	117	113	109	125	118	121
500-228026-34	PZ-214	88	92	124	104	103	119	95	106
500-228026-39	MW-48	96	89	139	109	104	116	104	104
500-228026-39 - DL	MW-48								
500-228026-40	MW-9	158 *5+	139	148	141	181 *5+	135	96	117
500-228026-40 - DL	MW-9								
500-228026-41	MW-9 DUP	108	87	102	91	112	115	102	113
500-228026-42	EB-03	89	90	109	93	99	98	83	98
500-228026-43	FB-03	85	93	102	106	99	100	94	92
500-228026-44	PZ-200	89	86	133	108	104	113	84	88
500-228026-45	MW-200	86	74	105	95	91	100	96	109
500-228026-50	EB-05	85	96	88	106	86	86	95	96
500-228026-51	FB-05	90	92	93	102	91	96	109	119
500-228026-53	MW-209 DUP	75	77	97	86	80	92	87	94
LCS 320-647722/2-A	Lab Control Sample	85	85	91	92	87	92	97	98
LCS 320-647723/2-A	Lab Control Sample	84	84	105	102	95	102	98	103
LCS 320-648235/2-A	Lab Control Sample	94	93	88	100	88	95	95	98
LCSD 320-647722/3-A	Lab Control Sample Dup	96	92	108	109	104	107	103	104
LCSD 320-647723/3-A	Lab Control Sample Dup	93	93	106	105	95	106	100	104

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)
LCSD 320-648235/3-A	Lab Control Sample Dup	94	93	97	99	90	88	94	97
MB 320-647722/1-A	Method Blank	112	114	118	119	111	127	122	127
MB 320-647723/1-A	Method Blank	83	91	107	110	107	110	105	107
MB 320-648235/1-A	Method Blank	88	94	89	92	89	90	92	101

		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)
500-228026-2	AMEC_MW-15	77	81	81	81	92	71	74	118
500-228026-4	MW-209	83	91	87	83	96	75	72	120
500-228026-5	EB-02	95	104	102	106	100	82	86	118
500-228026-6	FB-02	80	89	89	95	86	76	74	113
500-228026-7	MW-235	89	97	94	94	96	76	81	132
500-228026-8	MW-236	87	93	88	85	109	80	81	126
500-228026-9	PZ-226	88	95	87	89	105	67	79	119
500-228026-10	MW-226	95	103	102	101	105	86	83	128
500-228026-11	AMEC_MW-16	93	98	98	98	107	82	89	141
500-228026-11 - DL	AMEC_MW-16								
500-228026-12	AMEC_MW-16A	85	90	85	86	85	72	86	122
500-228026-14	FB-04	88	99	101	104	87	66	84	120
500-228026-15	EB-04	92	102	100	99	115	104	105	129
500-228026-16	AMEC_MW-14	66	73	68	65	110	77	78	130
500-228026-17	AMEC_MW-17	91	98	99	96	94	76	83	117
500-228026-20	MW-12	188 *5+	189 *5+	157 *5+	134	135	139	337 *5+	154 *5+
500-228026-20 - DL	MW-12								
500-228026-21	MW-12 DUP	162 *5+	175 *5+	153 *5+	133	109	128	328 *5+	145
500-228026-21 - DL	MW-12 DUP								
500-228026-22	FB-06	91	101	104	100	89	84	85	116
500-228026-23	EB-06	89	96	100	99	86	82	84	112
500-228026-24	MW-201	87	91	91	90	101	73	86	130
500-228026-25	MW-204	80	82	78	81	107	79	81	124
500-228026-26	PZ-206	85	91	86	89	91	75	75	125
500-228026-27	MW-213	88	106	108	108	90	80	84	139
500-228026-28	MW-213 DUP	93	105	105	105	102	79	84	130
500-228026-30	FB-01	96	102	103	108	94	85	89	123
500-228026-31	EB-01	86	94	112	110	101	83	92	124
500-228026-34	PZ-214	94	94	85	84	97	86	81	125
500-228026-39	MW-48	88	95	93	91	122	70	79	134
500-228026-39 - DL	MW-48								
500-228026-40	MW-9	141	162 *5+	148	149	182 *5+	281 *5+	459 *5+	174 *5+
500-228026-40 - DL	MW-9								
500-228026-41	MW-9 DUP	98	95	84	85	204 *5+	180 *5+	197 *5+	153 *5+
500-228026-42	EB-03	79	89	97	95	95	106	95	132
500-228026-43	FB-03	76	84	94	94	98	110	123	124
500-228026-44	PZ-200	89	94	84	82	102	109	101	151 *5+
500-228026-45	MW-200	71	74	82	80	117	118	112	133
500-228026-50	EB-05	64	71	76	77	113	96	95	105
500-228026-51	FB-05	77	78	91	89	125	146	113	120
500-228026-53	MW-209 DUP	63	65	69	66	122	114	120	110
LCS 320-647722/2-A	Lab Control Sample	67	79	81	83	118	74	89	109
LCS 320-647723/2-A	Lab Control Sample	75	85	93	90	94	74	85	110

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)
LCS 320-648235/2-A	Lab Control Sample	71	76	92	85	99	97	86	111
LCSD 320-647722/3-A	Lab Control Sample Dup	80	86	95	92	89	69	81	109
LCSD 320-647723/3-A	Lab Control Sample Dup	80	86	91	92	91	75	76	108
LCSD 320-648235/3-A	Lab Control Sample Dup	71	75	89	87	118	96	76	110
MB 320-647722/1-A	Method Blank	96	105	111	111	103	95	97	131
MB 320-647723/1-A	Method Blank	77	88	99	95	95	79	80	108
MB 320-648235/1-A	Method Blank	72	74	88	83	101	97	93	107

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M102FTS (25-150)							
500-228026-2	AMEC_MW-15	67							
500-228026-4	MW-209	64							
500-228026-5	EB-02	80							
500-228026-6	FB-02	59							
500-228026-7	MW-235	68							
500-228026-8	MW-236	71							
500-228026-9	PZ-226	61							
500-228026-10	MW-226	85							
500-228026-11	AMEC_MW-16	76							
500-228026-11 - DL	AMEC_MW-16								
500-228026-12	AMEC_MW-16A	66							
500-228026-14	FB-04	85							
500-228026-15	EB-04	96							
500-228026-16	AMEC_MW-14	60							
500-228026-17	AMEC_MW-17	69							
500-228026-20	MW-12	251 *5+							
500-228026-20 - DL	MW-12								
500-228026-21	MW-12 DUP	183 *5+							
500-228026-21 - DL	MW-12 DUP								
500-228026-22	FB-06	74							
500-228026-23	EB-06	70							
500-228026-24	MW-201	65							
500-228026-25	MW-204	58							
500-228026-26	PZ-206	60							
500-228026-27	MW-213	72							
500-228026-28	MW-213 DUP	84							
500-228026-30	FB-01	70							
500-228026-31	EB-01	68							
500-228026-34	PZ-214	81							
500-228026-39	MW-48	68							
500-228026-39 - DL	MW-48								
500-228026-40	MW-9	333 *5+							
500-228026-40 - DL	MW-9								
500-228026-41	MW-9 DUP	146							
500-228026-42	EB-03	103							
500-228026-43	FB-03	110							
500-228026-44	PZ-200	74							
500-228026-45	MW-200	101							
500-228026-50	EB-05	89							
500-228026-51	FB-05	114							

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-1
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)**						
500-228026-53	MW-209 DUP	87						
LCS 320-647722/2-A	Lab Control Sample	87						
LCS 320-647723/2-A	Lab Control Sample	67						
LCS 320-648235/2-A	Lab Control Sample	81						
LCSD 320-647722/3-A	Lab Control Sample Dup	80						
LCSD 320-647723/3-A	Lab Control Sample Dup	70						
LCSD 320-648235/3-A	Lab Control Sample Dup	94						
MB 320-647722/1-A	Method Blank	88						
MB 320-647723/1-A	Method Blank	69						
MB 320-648235/1-A	Method Blank	80						

Surrogate Legend

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-228026-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

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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Authorized for release by
Sandie Fredrick, Project Manager II
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(920)261-1660

Table of Contents

Job ID: 500-228026-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-228026-2

Comments
No additional comments.

Receipt
The samples were received on 1/13/2023 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 1.9º C and 3.1º C.

LCMS
Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-647722 and analytical batch 320-648490 recovered outside control limits for the following analytes: 4:2 FTS.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 320-647722.
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: The following sample was light brown in color and contained a thin layer of sediment at the bottom of the bottle prior to extraction: MW-228 (500-228026-1).
320-647722
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the thin layer of sediment at the bottom of the bottle, the following sample was centrifuged and decanted into new 250 mL container: MW-228 (500-228026-1). After centrifuging and decanting, the samples were fortified with IDA and then extracted.
320-647722
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: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-228026-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.8		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.9	J	2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		2.0	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.72	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.95	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-228026-2
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: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-228026-1	MW-228	Water	01/09/23 13:22	01/13/23 09:30

Client: Ramboll US Corporation
Job ID: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-228026-1
Date Collected: 01/09/23 13:22
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.8**		5.0	2.4	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluoropentanoic acid (PFPeA)	**1.9**	**J**	2.0	0.49	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorohexanoic acid (PFHxA)	**2.9**		2.0	0.58	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluoroheptanoic acid (PFHpA)	**3.4**		2.0	0.25	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorooctanoic acid (PFOA)	**39**		2.0	0.84	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		2.0	0.20	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorohexanesulfonic acid (PFHxS)	**0.72**	**J**	2.0	0.57	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorooctanesulfonic acid (PFOS)	**0.95**	**J**	2.0	0.54	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		01/18/23 06:12	02/01/23 19:00	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		01/18/23 06:12	02/01/23 19:00	1
NEtFOSA	<0.86		2.0	0.86	ng/L		01/18/23 06:12	02/01/23 19:00	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/18/23 06:12	02/01/23 19:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/18/23 06:12	02/01/23 19:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/18/23 06:12	02/01/23 19:00	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/18/23 06:12	02/01/23 19:00	1
NEtFOSE	<0.84		2.0	0.84	ng/L		01/18/23 06:12	02/01/23 19:00	1
4:2 FTS	<0.24	*1	2.0	0.24	ng/L		01/18/23 06:12	02/01/23 19:00	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/18/23 06:12	02/01/23 19:00	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/18/23 06:12	02/01/23 19:00	1
DONA	<0.40		2.0	0.40	ng/L		01/18/23 06:12	02/01/23 19:00	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/18/23 06:12	02/01/23 19:00	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:12	02/01/23 19:00	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/18/23 06:12	02/01/23 19:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*54*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C5 PFPeA	*80*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C2 PFHxA	*89*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C4 PFHpA	*90*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C4 PFOA	*85*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C5 PFNA	*85*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C2 PFDA	*83*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C2 PFUnA	*79*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*
13C2 PFDoA	*78*		*25 - 150*	*01/18/23 06:12*	*02/01/23 19:00*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Lab Sample ID: 500-228026-1
Date Collected: 01/09/23 13:22
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	79		25 - 150	01/18/23 06:12	02/01/23 19:00	1
13C3 PFBS	85		25 - 150	01/18/23 06:12	02/01/23 19:00	1
18O2 PFHxS	88		25 - 150	01/18/23 06:12	02/01/23 19:00	1
13C4 PFOS	83		25 - 150	01/18/23 06:12	02/01/23 19:00	1
13C8 FOSA	82		10 - 150	01/18/23 06:12	02/01/23 19:00	1
d3-NMeFOSAA	64		25 - 150	01/18/23 06:12	02/01/23 19:00	1
d5-NEtFOSAA	65		25 - 150	01/18/23 06:12	02/01/23 19:00	1
d-N-MeFOSA-M	71		10 - 150	01/18/23 06:12	02/01/23 19:00	1
d-N-EtFOSA-M	74		10 - 150	01/18/23 06:12	02/01/23 19:00	1
d7-N-MeFOSE-M	76		10 - 150	01/18/23 06:12	02/01/23 19:00	1
d9-N-EtFOSE-M	77		10 - 150	01/18/23 06:12	02/01/23 19:00	1
M2-4:2 FTS	86		25 - 150	01/18/23 06:12	02/01/23 19:00	1
M2-6:2 FTS	62		25 - 150	01/18/23 06:12	02/01/23 19:00	1
M2-8:2 FTS	57		25 - 150	01/18/23 06:12	02/01/23 19:00	1
13C3 HFPO-DA	88		25 - 150	01/18/23 06:12	02/01/23 19:00	1
13C2 10:2 FTS	51		25 - 150	01/18/23 06:12	02/01/23 19:00	1

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

LCMS

Prep Batch: 647722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-1	MW-228	Total/NA	Water	3535	
MB 320-647722/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 648490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-647722/1-A	Method Blank	Total/NA	Water	537 (modified)	647722
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	647722

Analysis Batch: 648807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	647722

Analysis Batch: 650919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-1	MW-228	Total/NA	Water	537 (modified)	647722

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/18/23 06:12	01/21/23 03:40	1
DONA	<0.40		2.0	0.40	ng/L		01/18/23 06:12	01/21/23 03:40	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFPeA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFHxA	*132*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFOA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFNA	*117*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFUnA	*120*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDoA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFTeDA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*

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

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	118		25 - 150	01/18/23 06:12	01/21/23 03:40	1
18O2 PFHxS	119		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C4 PFOS	111		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C8 FOSA	127		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d3-NMeFOSAA	122		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d5-NEtFOSAA	127		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-MeFOSA-M	96		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-EtFOSA-M	105		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d7-N-MeFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d9-N-EtFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-4:2 FTS	103		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-6:2 FTS	95		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-8:2 FTS	97		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C3 HFPO-DA	131		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C2 10:2 FTS	88		25 - 150	01/18/23 06:12	01/21/23 03:40	1

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	44.0		ng/L		110	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.1		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.7		ng/L		117	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.1		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	47.7		ng/L		119	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.5		ng/L		116	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.7		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	51.5		ng/L		129	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	47.2		ng/L		118	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	43.8		ng/L		110	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	40.5		ng/L		114	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.0		ng/L		112	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.8		ng/L		112	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.0		ng/L		105	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	43.8		ng/L		118	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	47.3		ng/L		123	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.4		ng/L		107	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.7		ng/L		110	60 - 135

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

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		104	60 - 135
NEtFOSA	40.0	44.3		ng/L		111	60 - 135
NMeFOSA	40.0	52.8		ng/L		132	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.7		ng/L		104	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.4		ng/L		111	60 - 135
NMeFOSE	40.0	46.0		ng/L		115	60 - 135
NEtFOSE	40.0	46.3		ng/L		116	60 - 135
4:2 FTS	37.5	32.4		ng/L		86	60 - 135
6:2 FTS	38.1	46.4		ng/L		122	60 - 135
8:2 FTS	38.4	39.8		ng/L		104	60 - 135
DONA	37.8	47.3		ng/L		125	60 - 135
HFPO-DA (GenX)	40.0	41.9		ng/L		105	60 - 135
F-53B Major	37.4	45.5		ng/L		122	60 - 135
F-53B Minor	37.8	41.3		ng/L		109	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*84*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*97*		*25 - 150*
13C4 PFOA	*100*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
13C2 PFTeDA	*85*		*25 - 150*
13C3 PFBS	*91*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
13C8 FOSA	*92*		*10 - 150*
d3-NMeFOSAA	*97*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*67*		*10 - 150*
d-N-EtFOSA-M	*79*		*10 - 150*
d7-N-MeFOSE-M	*81*		*10 - 150*
d9-N-EtFOSE-M	*83*		*10 - 150*
M2-4:2 FTS	*118*		*25 - 150*
M2-6:2 FTS	*74*		*25 - 150*
M2-8:2 FTS	*89*		*25 - 150*
13C3 HFPO-DA	*109*		*25 - 150*
13C2 10:2 FTS	*87*		*25 - 150*

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	46.1		ng/L		115	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)			40.0	46.6		ng/L		117	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)			40.0	45.6		ng/L		114	60 - 135	10	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.2		ng/L		113	60 - 135	3	30
Perfluorooctanoic acid (PFOA)			40.0	42.9		ng/L		107	60 - 135	2	30
Perfluorononanoic acid (PFNA)			40.0	45.4		ng/L		114	60 - 135	5	30
Perfluorodecanoic acid (PFDA)			40.0	50.0		ng/L		125	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	46.8		ng/L		117	60 - 135	9	30
Perfluorododecanoic acid (PFDoA)			40.0	50.5		ng/L		126	60 - 135	2	30
Perfluorotridecanoic acid (PFTriA)			40.0	46.5		ng/L		116	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)			40.0	47.5		ng/L		119	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)			35.5	39.1		ng/L		110	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	38.9		ng/L		103	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.5		ng/L		105	60 - 135	6	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	42.3		ng/L		111	60 - 135	6	30
Perfluorooctanesulfonic acid (PFOS)			37.2	41.5		ng/L		112	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)			38.5	46.8		ng/L		122	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	46.5		ng/L		121	60 - 135	12	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	43.3		ng/L		112	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)			40.0	41.9		ng/L		105	60 - 135	0	30
NEtFOSA			40.0	42.7		ng/L		107	60 - 135	4	30
NMeFOSA			40.0	52.3		ng/L		131	60 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	46.0		ng/L		115	60 - 135	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	46.1		ng/L		115	60 - 135	4	30
NMeFOSE			40.0	45.4		ng/L		114	60 - 135	1	30
NEtFOSE			40.0	43.9		ng/L		110	60 - 135	5	30
4:2 FTS			37.5	45.8	*1	ng/L		122	60 - 135	34	30
6:2 FTS			38.1	51.2		ng/L		134	60 - 135	10	30
8:2 FTS			38.4	41.1		ng/L		107	60 - 135	3	30
DONA			37.8	45.9		ng/L		121	60 - 135	3	30
HFPO-DA (GenX)			40.0	42.3		ng/L		106	60 - 135	1	30
F-53B Major			37.4	42.5		ng/L		114	60 - 135	7	30
F-53B Minor			37.8	40.0		ng/L		106	60 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*95*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	105		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	106		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	92		25 - 150
13C3 PFBS	108		25 - 150
18O2 PFHxS	109		25 - 150
13C4 PFOS	104		25 - 150
13C8 FOSA	107		10 - 150
d3-NMeFOSAA	103		25 - 150
d5-NEtFOSAA	104		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	95		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	69		25 - 150
M2-8:2 FTS	81		25 - 150
13C3 HFPO-DA	109		25 - 150
13C2 10:2 FTS	80		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-2
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-228
Date Collected: 01/09/23 13:22
Date Received: 01/13/23 09:30

Lab Sample ID: 500-228026-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	650919	AEC	EET SAC	02/01/23 19:00

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: 500-228026-2
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 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking Nos	COC No
	Sarah Jo Martens	Fredrick Sandie		500-108575-45177 1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 6
Company: Ramboll US Corporation	PWSID	Analysis Requested		Job #: 500-228026
Address: 234 W Florida Street Fifth Floor	Due Date Requested			Preservation Codes
City: Milwaukee	TAT Requested (days)			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:

500-228026 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)	8260B VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:		N	A				
1 MW-228	1-9-2023	1322	G	Water	N	N	X			
2 AMEC_MW-15	1-9-2023	1453		Water	N	N	X			
3 MW-218	1-9-2023	1550		Water	N	N	X			
4 MW-209	1-10-2023	0817		Water	N	N	X	X		
5 EB-02	1-9-2023	1605		Water	N	N	X			
6 FB-02	1-9-2023	1610		Water	N	N	X			
7 MW-235	1-10-2023	0927		Water	N	N	X			
8 MW-238	1-10-2023	1010		Water	N	N	X			
9 PZ-226	1-10-2023	1121		Water	N	N	X			
10 MW-226	1-10-2023	1222		Water	N	N	X			
11 AMEC-MW16	1-10-2023	1421		Water	N	N	X			

1-11-23

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological	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
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	Date/Time: 1.12.23 1700	Company: Eurofins	Received by	1/13/23 0930	Company: EETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperatures C and Other Remarks	Ver: 06/08/2021
		2.8 → 1.9	

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: Sarah Jo Marchetto	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500 108575-45177 4
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 2 of 10
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
Address: 234 W. Florida Street, Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days):			
State, Zip: WI, 53204	Compliance Project: ☒ Yes ☐ 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 Ammonia, 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)	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code				N	A		
12	AMEC_MW-16A	1-10-23	1455	G	Water			X			
13	MW-21	1-10-23	1537	G	Water			X	X		
14	FB-04	1-10-23	1525		Water			X			
15	EB-04	1-10-23	1600		Water			X	X		
16	AMEC-MW-14	1-11-23	0800		Water			X			
17	AMEC_MW-17		0840		Water			X			
18	MW-219		0948		Water				X		
19	MW-121		1040		Water				X		
20	MW-12		1146		Water			X			
21	MW-12 Dup		1148		Water			X			
22	1/13/23				Water						

1-11-23

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	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	1.12.23 1700	Eurofins	Received by	1/13/23 0930	EBTH
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) and Other Remarks:

Ver: 08/2021

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: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-108575-45177.3
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 3 of 10 6
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-228026
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):			
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 169019647	Project #: 50018382			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8260B VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	A		
22 FB-06	1-11-23	1209	G	Water	N	N	X			
23 EB-06	1-21-23	1212	G	Water	N	N	X	X		
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

1-11-23

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	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	1.12.23 1700	Eurofins		1/13/23 0930	ERTA
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: 06/08/2021

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 4 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901 3510(Tel)	PO #: 1690019647			
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
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A	D	D	D	D	D	N		
24	MW-201	1 9 23	1301	G	Water			X									
25	MW-204		1350		Water			X									
26	~~MW~~ PZ-206		1435		Water			X									
27	MW-213		1520		Water			X	X								
28	MW-213 DUP		1520		Water			X	X								
29	MW-82		1615		Water				X								
30	FB-01		1625		Water			X									
31	EB-01		1630		Water			X	X								
32	AECOM MW-19	1.10.23	755		Water				X								
33	MW-17		835		Water				X								
34	PZ-214		925		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		1.12.23 1000	RAMBOLL		1.12.23 1000	Eurofins
2	Relinquished by	Date/Time 1.12.23 1700	Company Eurofins	Received by	Date/Time 1/13/23 0930	Company FEDEX
3	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

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

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	D. GLASFORD	Fredrick Sandie		500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262 901-3510(Tel)	PO #: 1690019647			
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, 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)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code				N	A	D	D	D	D	D	N		
35	MW-8	1-10-23	1025	G	Water				X								
36	MW-3		1130		Water				X								
37	MW-37		1255		Water				X								
38	MW-19		1340		Water				X								
39	MW-48		1445		Water			X									
40	MW-9		1540		Water			X	X								
41	MW-9 DUP		1540		Water			X	X								
42	EB-03		1610		Water			X	X								
43	FB-03		1615		Water			X									
44	PZ-200	1-11-23	800		Water			X									
45	MW-200		840		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]	1-12-23 1000	Ramboll	[signature]	1.12.23 1000	Eurofins
2	[signature]	1.12.23 1700	Eurofins	[signature]	1/13/23 0930	EBTA
3						

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

Cooler Temperature(s) °C and Other Remarks

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

Chain of Custody Record

eurofins

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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, 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)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
	Preservation Code:							N	A	D	D	D	D	D	N		
46	MW-5	1011.23	855	G	Water				X								
47	MW-31		940		Water				X								
48	MW-16		1020		Water				X								
49	MW-15		1100		Water				X								
50	EB-05		1130		Water			X	X								
51	FB-05		1135		Water			X									
52	TRIP BLANK	—	—		Water				X								
53	MW 209 DUP	1.10.23	820	G	Water			X	X								
54	MW-217 DUP	1-10 23	1539		Water			X	X								
					Water												
					Water												

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

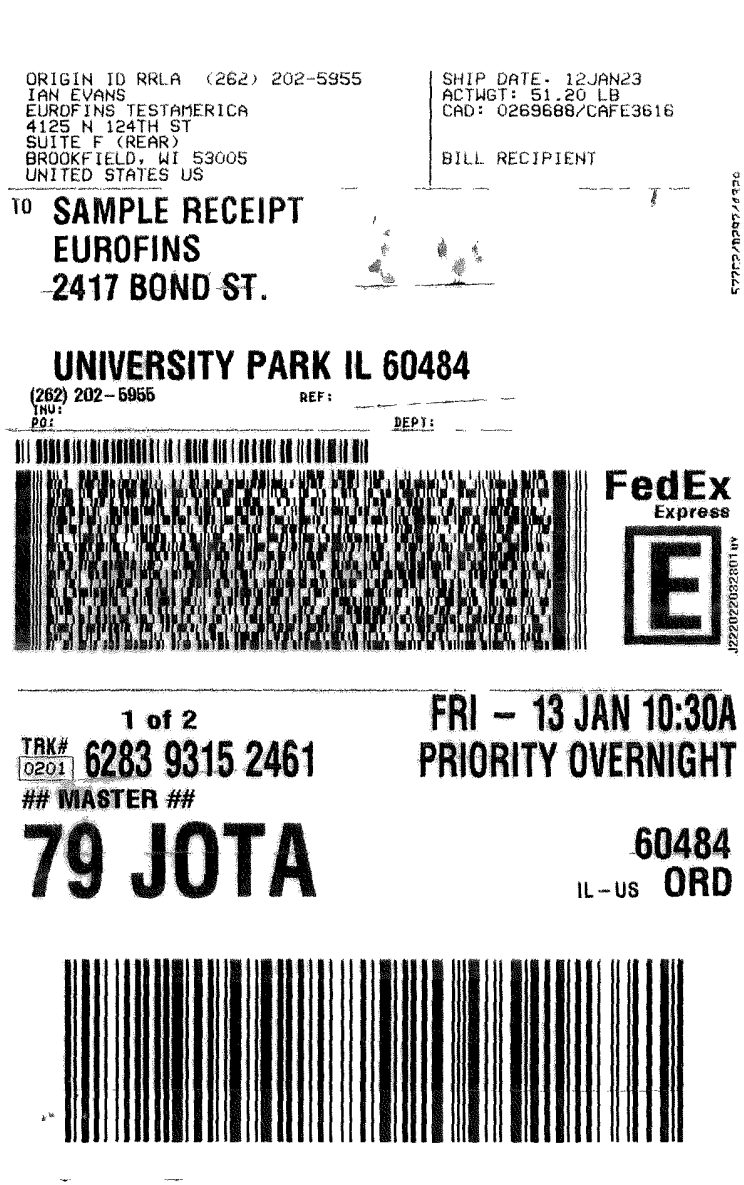
Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
	1.13.23 1700	Eurofins		1/13/23 0930	BRTN

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

Ver 01/16/2019

500-228026 Waybi



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: 12JAN23
ACTWGT: 51.20 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484
(262) 202-5955 REF:
INV:
PO: DEPT:

FedEx Express

1 of 2
TRK# 0201 6283 9315 2461
MASTER
79 JOTA

FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-228026-2
SDG Number:

Login Number: 228026
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	1.9
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: 500-228026-2
SDG Number:

Login Number: 228026
List Number: 2
Creator: Pratali, Sandra A

List Source: Eurofins Sacramento
List Creation: 01/16/23 05:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2077255
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-2
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)
500-228026-1	MW-228	54	80	89	90	85	85	83	79
LCS 320-647722/2-A	Lab Control Sample	84	85	102	97	100	93	96	97
LCSD 320-647722/3-A	Lab Control Sample Dup	95	96	105	97	106	102	99	99
MB 320-647722/1-A	Method Blank	112	114	132	112	108	117	115	120

		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)
500-228026-1	MW-228	78	79	85	88	83	82	64	65
LCS 320-647722/2-A	Lab Control Sample	85	85	91	92	87	92	97	98
LCSD 320-647722/3-A	Lab Control Sample Dup	96	92	108	109	104	107	103	104
MB 320-647722/1-A	Method Blank	112	114	118	119	111	127	122	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)
500-228026-1	MW-228	71	74	76	77	86	62	57	88
LCS 320-647722/2-A	Lab Control Sample	67	79	81	83	118	74	89	109
LCSD 320-647722/3-A	Lab Control Sample Dup	80	86	95	92	89	69	81	109
MB 320-647722/1-A	Method Blank	96	105	111	111	103	95	97	131

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-228026-1	MW-228	51
LCS 320-647722/2-A	Lab Control Sample	87
LCSD 320-647722/3-A	Lab Control Sample Dup	80
MB 320-647722/1-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: 500-228026-2
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

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JOB DESCRIPTION

Former Mirro Plant No 9 - 1690019647

JOB NUMBER

500-228026-3

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

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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Authorized for release by
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(920)261-1660

Table of Contents

Job ID: 500-228026-3

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-228026-3

Comments
No additional comments.

Receipt
The samples were received on 1/13/2023 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 1.9º C and 3.1º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 500-694064 contained some analytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-694064/7)

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

LCMS
Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-647722 and analytical batch 320-648490 recovered outside control limits for the following analytes: 4:2 FTS.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 320-647722.
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: The following sample was light brown in color and contained a thin layer of sediment at the bottom of the bottle prior to extraction: MW-218 (500-228026-3).
320-647722
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Due to the thin layer of sediment at the bottom of the bottle, the following sample was centrifuged and decanted into new 250 mL container: MW-218 (500-228026-3). After centrifuging and decanting, the samples were fortified with IDA and then extracted.
320-647722
Method: 3535_PFC_28D
Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-648235.
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: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218 — Lab Sample ID: 500-228026-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.6		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	79		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.27	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.82	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-217 — Lab Sample ID: 500-228026-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.98	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.9	0.55	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)	2.8		1.9	0.81	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-217 DUP — Lab Sample ID: 500-228026-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.0	J	4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.86	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	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)	2.9		1.9	0.82	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-228026-3
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: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-228026-3	MW-218	Water	01/09/23 15:50	01/13/23 09:30
500-228026-13	MW-217	Water	01/10/23 15:37	01/13/23 09:30
500-228026-54	MW-217 DUP	Water	01/10/23 15:39	01/13/23 09:30

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218
Lab Sample ID: 500-228026-3
Date Collected: 01/09/23 15:50
Matrix: Water
Date Received: 01/13/23 09:30

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.6**		4.8	2.3	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluoropentanoic acid (PFPeA)	**2.3**		1.9	0.47	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorohexanoic acid (PFHxA)	**2.2**		1.9	0.56	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluoroheptanoic acid (PFHpA)	**2.5**		1.9	0.24	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorooctanoic acid (PFOA)	**79**		1.9	0.82	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorononanoic acid (PFNA)	**0.27**	**J**	1.9	0.26	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorobutanesulfonic acid (PFBS)	**1.8**	**J**	1.9	0.19	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorohexanesulfonic acid (PFHxS)	**0.82**	**J**	1.9	0.55	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorooctanesulfonic acid (PFOS)	**1.1**	**J**	1.9	0.52	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/18/23 06:12	01/21/23 04:32	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/18/23 06:12	01/21/23 04:32	1
NEtFOSA	<0.84		1.9	0.84	ng/L		01/18/23 06:12	01/21/23 04:32	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:12	01/21/23 04:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:12	01/21/23 04:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.8	1.3	ng/L		01/18/23 06:12	01/21/23 04:32	1
NMeFOSE	<1.3		3.9	1.3	ng/L		01/18/23 06:12	01/21/23 04:32	1
NEtFOSE	<0.82		1.9	0.82	ng/L		01/18/23 06:12	01/21/23 04:32	1
4:2 FTS	<0.23	*1	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:32	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:12	01/21/23 04:32	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:12	01/21/23 04:32	1
DONA	<0.39		1.9	0.39	ng/L		01/18/23 06:12	01/21/23 04:32	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		01/18/23 06:12	01/21/23 04:32	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 04:32	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/18/23 06:12	01/21/23 04:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C5 PFPeA	*97*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C2 PFHxA	*106*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C4 PFOA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C5 PFNA	*102*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C2 PFDA	*97*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C2 PFUnA	*105*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*
13C2 PFDoA	*90*		*25 - 150*	*01/18/23 06:12*	*01/21/23 04:32*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218
Lab Sample ID: 500-228026-3
Date Collected: 01/09/23 15:50
Matrix: Water
Date Received: 01/13/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	91		25 - 150	01/18/23 06:12	01/21/23 04:32	1
13C3 PFBS	123		25 - 150	01/18/23 06:12	01/21/23 04:32	1
18O2 PFHxS	112		25 - 150	01/18/23 06:12	01/21/23 04:32	1
13C4 PFOS	103		25 - 150	01/18/23 06:12	01/21/23 04:32	1
13C8 FOSA	117		10 - 150	01/18/23 06:12	01/21/23 04:32	1
d3-NMeFOSAA	108		25 - 150	01/18/23 06:12	01/21/23 04:32	1
d5-NEtFOSAA	118		25 - 150	01/18/23 06:12	01/21/23 04:32	1
d-N-MeFOSA-M	82		10 - 150	01/18/23 06:12	01/21/23 04:32	1
d-N-EtFOSA-M	90		10 - 150	01/18/23 06:12	01/21/23 04:32	1
d7-N-MeFOSE-M	95		10 - 150	01/18/23 06:12	01/21/23 04:32	1
d9-N-EtFOSE-M	98		10 - 150	01/18/23 06:12	01/21/23 04:32	1
M2-4:2 FTS	96		25 - 150	01/18/23 06:12	01/21/23 04:32	1
M2-6:2 FTS	79		25 - 150	01/18/23 06:12	01/21/23 04:32	1
M2-8:2 FTS	86		25 - 150	01/18/23 06:12	01/21/23 04:32	1
13C3 HFPO-DA	117		25 - 150	01/18/23 06:12	01/21/23 04:32	1
13C2 10:2 FTS	63		25 - 150	01/18/23 06:12	01/21/23 04:32	1

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-228026-13
Date Collected: 01/10/23 15:37
Matrix: Water
Date Received: 01/13/23 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			01/16/23 12:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/16/23 12:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/16/23 12:22	1
Bromoform	<0.48		1.0	0.48	ug/L			01/16/23 12:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/16/23 12:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/16/23 12:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/16/23 12:22	1
Chloroform	<0.37		2.0	0.37	ug/L			01/16/23 12:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/16/23 12:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/16/23 12:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/16/23 12:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/16/23 12:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/16/23 12:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/16/23 12:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/16/23 12:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/16/23 12:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/16/23 12:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/16/23 12:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/16/23 12:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/16/23 12:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/16/23 12:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/16/23 12:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/16/23 12:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/16/23 12:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/16/23 12:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/16/23 12:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/16/23 12:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/16/23 12:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:22	1
Styrene	<0.39		1.0	0.39	ug/L			01/16/23 12:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/16/23 12:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/16/23 12:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/16/23 12:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/16/23 12:22	1
Toluene	<0.15		0.50	0.15	ug/L			01/16/23 12:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/16/23 12:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1

Client Sample ID: MW-217
Lab Sample ID: 500-228026-13
Date Collected: 01/10/23 15:37
Matrix: Water
Date Received: 01/13/23 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			01/16/23 12:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/16/23 12:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/16/23 12:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/16/23 12:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/16/23 12:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/16/23 12:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/16/23 12:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/16/23 12:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/16/23 12:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/16/23 12:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/16/23 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*01/16/23 12:22*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*01/16/23 12:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*01/16/23 12:22*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*01/16/23 12:22*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluoropentanoic acid (PFPeA)	**0.98**	**J**	1.9	0.47	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorohexanoic acid (PFHxA)	**1.7**	**J**	1.9	0.55	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluoroheptanoic acid (PFHpA)	**1.0**	**J**	1.9	0.24	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorooctanoic acid (PFOA)	**2.8**		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		01/18/23 06:12	01/21/23 06:25	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		01/18/23 06:12	01/21/23 06:25	1
NEtFOSA	<0.83		1.9	0.83	ng/L		01/18/23 06:12	01/21/23 06:25	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/18/23 06:12	01/21/23 06:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		01/18/23 06:12	01/21/23 06:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/18/23 06:12	01/21/23 06:25	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/18/23 06:12	01/21/23 06:25	1
NEtFOSE	<0.81		1.9	0.81	ng/L		01/18/23 06:12	01/21/23 06:25	1

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217
Lab Sample ID: 500-228026-13
Date Collected: 01/10/23 15:37
Matrix: Water
Date Received: 01/13/23 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	1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:25	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/18/23 06:12	01/21/23 06:25	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/18/23 06:12	01/21/23 06:25	1
DONA	<0.38		1.9	0.38	ng/L		01/18/23 06:12	01/21/23 06:25	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/18/23 06:12	01/21/23 06:25	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/18/23 06:12	01/21/23 06:25	1
F-53B Minor	<0.30		1.9	0.30	ng/L		01/18/23 06:12	01/21/23 06:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*77*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C5 PFPeA	*103*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 PFHxA	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C4 PFHpA	*97*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C4 PFOA	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C5 PFNA	*96*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 PFDA	*92*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 PFUnA	*95*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 PFDoA	*76*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 PFTeDA	*76*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C3 PFBS	*116*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
18O2 PFHxS	*100*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C4 PFOS	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C8 FOSA	*108*		*10 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d3-NMeFOSAA	*88*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d5-NEtFOSAA	*93*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d-N-MeFOSA-M	*82*		*10 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d-N-EtFOSA-M	*86*		*10 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d7-N-MeFOSE-M	*85*		*10 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
d9-N-EtFOSE-M	*81*		*10 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
M2-4:2 FTS	*83*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
M2-6:2 FTS	*65*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
M2-8:2 FTS	*74*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C3 HFPO-DA	*116*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*
13C2 10:2 FTS	*61*		*25 - 150*	*01/18/23 06:12*	*01/21/23 06:25*	*1*

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217 DUP
Lab Sample ID: 500-228026-54
Date Collected: 01/10/23 15:39
Matrix: Water
Date Received: 01/13/23 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			01/17/23 20:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 20:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 20:11	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 20:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 20:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 20:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 20:11	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 20:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 20:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 20:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 20:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 20:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 20:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 20:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 20:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 20:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 20:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 20:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 20:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 20:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 20:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 20:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 20:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 20:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 20:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 20:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 20:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 20:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 20:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 20:11	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 20:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 20:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 20:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 20:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 20:11	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 20:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 20:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1

Client Sample ID: MW-217 DUP
Lab Sample ID: 500-228026-54

Date Collected: 01/10/23 15:39
Matrix: Water
Date Received: 01/13/23 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			01/17/23 20:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 20:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 20:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 20:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 20:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 20:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 20:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 20:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 20:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 20:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*01/17/23 20:11*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 120*		*01/17/23 20:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*01/17/23 20:11*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*01/17/23 20:11*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.0**	**J**	4.8	2.3	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluoropentanoic acid (PFPeA)	**0.86**	**J**	1.9	0.47	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorohexanoic acid (PFHxA)	**1.4**	**J**	1.9	0.56	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluoroheptanoic acid (PFHpA)	**1.1**	**J**	1.9	0.24	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorooctanoic acid (PFOA)	**2.9**		1.9	0.82	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		01/20/23 05:44	01/25/23 15:52	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		01/20/23 05:44	01/25/23 15:52	1
NEtFOSA	<0.84		1.9	0.84	ng/L		01/20/23 05:44	01/25/23 15:52	1
NMeFOSA	<0.41		1.9	0.41	ng/L		01/20/23 05:44	01/25/23 15:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.8	1.2	ng/L		01/20/23 05:44	01/25/23 15:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		01/20/23 05:44	01/25/23 15:52	1
NMeFOSE	<1.3		3.8	1.3	ng/L		01/20/23 05:44	01/25/23 15:52	1
NEtFOSE	<0.82		1.9	0.82	ng/L		01/20/23 05:44	01/25/23 15:52	1

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-217 DUP
Lab Sample ID: 500-228026-54
Date Collected: 01/10/23 15:39
Matrix: Water
Date Received: 01/13/23 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		01/20/23 05:44	01/25/23 15:52	1
6:2 FTS	<2.4		4.8	2.4	ng/L		01/20/23 05:44	01/25/23 15:52	1
8:2 FTS	<0.44		1.9	0.44	ng/L		01/20/23 05:44	01/25/23 15:52	1
DONA	<0.38		1.9	0.38	ng/L		01/20/23 05:44	01/25/23 15:52	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		01/20/23 05:44	01/25/23 15:52	1
F-53B Major	<0.23		1.9	0.23	ng/L		01/20/23 05:44	01/25/23 15:52	1
F-53B Minor	<0.31		1.9	0.31	ng/L		01/20/23 05:44	01/25/23 15:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*73*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C5 PFPeA	*95*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 PFHxA	*98*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C4 PFHpA	*98*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C4 PFOA	*100*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C5 PFNA	*101*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 PFDA	*88*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 PFUnA	*88*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 PFDoA	*75*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 PFTeDA	*72*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C3 PFBS	*103*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
18O2 PFHxS	*88*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C4 PFOS	*83*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C8 FOSA	*92*		*10 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d3-NMeFOSAA	*89*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d5-NEtFOSAA	*105*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d-N-MeFOSA-M	*63*		*10 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d-N-EtFOSA-M	*67*		*10 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d7-N-MeFOSE-M	*67*		*10 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
d9-N-EtFOSE-M	*68*		*10 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
M2-4:2 FTS	*110*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
M2-6:2 FTS	*125*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C3 HFPO-DA	*117*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*
13C2 10:2 FTS	*109*		*25 - 150*	*01/20/23 05:44*	*01/25/23 15:52*	*1*

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

GC/MS VOA

Analysis Batch: 694064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-13	MW-217	Total/NA	Water	8260B	

Analysis Batch: 694276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-54	MW-217 DUP	Total/NA	Water	8260B	
MB 500-694276/7	Method Blank	Total/NA	Water	8260B	
LCS 500-694276/4	Lab Control Sample	Total/NA	Water	8260B	

LCMS

Prep Batch: 647722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-3	MW-218	Total/NA	Water	3535	
500-228026-13	MW-217	Total/NA	Water	3535	
MB 320-647722/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 648235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-54	MW-217 DUP	Total/NA	Water	3535	
MB 320-648235/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-648235/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-648235/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 648490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-3	MW-218	Total/NA	Water	537 (modified)	647722
500-228026-13	MW-217	Total/NA	Water	537 (modified)	647722
MB 320-647722/1-A	Method Blank	Total/NA	Water	537 (modified)	647722
LCSD 320-647722/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	647722

Analysis Batch: 648807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-647722/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	647722

Analysis Batch: 649279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228026-54	MW-217 DUP	Total/NA	Water	537 (modified)	648235
MB 320-648235/1-A	Method Blank	Total/NA	Water	537 (modified)	648235
LCS 320-648235/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	648235
LCSD 320-648235/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	648235

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-228026-3
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)
500-228026-13	MW-217	100	98	106	96
500-228026-54	MW-217 DUP	90	112	108	100
LCS 500-694276/4	Lab Control Sample	91	99	101	104
MB 500-694276/7	Method Blank	90	104	107	99

Surrogate Legend

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

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

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

Lab Sample ID: MB 500-694276/7
Matrix: Water
Analysis Batch: 694276

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			01/17/23 13:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			01/17/23 13:40	1
Bromoform	<0.48		1.0	0.48	ug/L			01/17/23 13:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			01/17/23 13:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			01/17/23 13:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			01/17/23 13:40	1
Chloroform	<0.37		2.0	0.37	ug/L			01/17/23 13:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			01/17/23 13:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			01/17/23 13:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/17/23 13:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			01/17/23 13:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			01/17/23 13:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			01/17/23 13:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			01/17/23 13:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			01/17/23 13:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			01/17/23 13:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			01/17/23 13:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			01/17/23 13:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			01/17/23 13:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			01/17/23 13:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			01/17/23 13:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			01/17/23 13:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			01/17/23 13:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
Styrene	<0.39		1.0	0.39	ug/L			01/17/23 13:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			01/17/23 13:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			01/17/23 13:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			01/17/23 13:40	1
Toluene	<0.15		0.50	0.15	ug/L			01/17/23 13:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1

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

Lab Sample ID: MB 500-694276/7
Matrix: Water
Analysis Batch: 694276

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			01/17/23 13:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			01/17/23 13:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			01/17/23 13:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			01/17/23 13:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			01/17/23 13:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			01/17/23 13:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			01/17/23 13:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			01/17/23 13:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			01/17/23 13:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			01/17/23 13:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			01/17/23 13:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			01/17/23 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*01/17/23 13:40*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*01/17/23 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*01/17/23 13:40*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*01/17/23 13:40*	*1*

Lab Sample ID: LCS 500-694276/4
Matrix: Water
Analysis Batch: 694276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	48.3		ug/L		97	70 - 120
Bromobenzene	50.0	45.3		ug/L		91	70 - 122
Bromochloromethane	50.0	48.2		ug/L		96	65 - 122
Bromodichloromethane	50.0	49.8		ug/L		100	69 - 120
Bromoform	50.0	51.1		ug/L		102	56 - 132
Bromomethane	50.0	67.8		ug/L		136	40 - 152
Carbon tetrachloride	50.0	50.5		ug/L		101	59 - 133
Chlorobenzene	50.0	48.9		ug/L		98	70 - 120
Chloroethane	50.0	64.3		ug/L		129	48 - 136
Chloroform	50.0	46.9		ug/L		94	70 - 120
Chloromethane	50.0	42.4		ug/L		85	56 - 152
2-Chlorotoluene	50.0	45.4		ug/L		91	70 - 125
4-Chlorotoluene	50.0	46.4		ug/L		93	68 - 124
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	45.6		ug/L		91	64 - 127
Dibromochloromethane	50.0	50.7		ug/L		101	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.4		ug/L		79	56 - 123
1,2-Dibromoethane	50.0	45.3		ug/L		91	70 - 125
Dibromomethane	50.0	49.0		ug/L		98	70 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 125
1,3-Dichlorobenzene	50.0	44.8		ug/L		90	70 - 125
1,4-Dichlorobenzene	50.0	45.5		ug/L		91	70 - 120
Dichlorodifluoromethane	50.0	45.8		ug/L		92	40 - 159
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 125

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

Lab Sample ID: LCS 500-694276/4
Matrix: Water
Analysis Batch: 694276

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	49.9		ug/L		100	68 - 127
1,1-Dichloroethene	50.0	51.9		ug/L		104	67 - 122
1,2-Dichloropropane	50.0	47.2		ug/L		94	67 - 130
1,3-Dichloropropane	50.0	48.9		ug/L		98	62 - 136
2,2-Dichloropropane	50.0	41.5		ug/L		83	58 - 139
1,1-Dichloropropene	50.0	47.0		ug/L		94	70 - 121
Ethylbenzene	50.0	44.7		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	41.2		ug/L		82	51 - 150
Isopropylbenzene	50.0	43.4		ug/L		87	70 - 126
Methylene Chloride	50.0	50.5		ug/L		101	69 - 125
Methyl tert-butyl ether	50.0	42.6		ug/L		85	55 - 123
Naphthalene	50.0	31.6		ug/L		63	53 - 144
n-Butylbenzene	50.0	45.9		ug/L		92	68 - 125
N-Propylbenzene	50.0	46.4		ug/L		93	69 - 127
p-Isopropyltoluene	50.0	43.9		ug/L		88	70 - 125
sec-Butylbenzene	50.0	45.4		ug/L		91	70 - 123
Styrene	50.0	49.3		ug/L		99	70 - 120
tert-Butylbenzene	50.0	43.3		ug/L		87	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.5		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	62 - 140
Tetrachloroethene	50.0	49.5		ug/L		99	70 - 128
Toluene	50.0	46.8		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	44.7		ug/L		89	62 - 128
1,2,3-Trichlorobenzene	50.0	34.1		ug/L		68	51 - 145
1,2,4-Trichlorobenzene	50.0	36.9		ug/L		74	57 - 137
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	70 - 125
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	71 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	51.7		ug/L		103	55 - 128
1,2,3-Trichloropropane	50.0	42.0		ug/L		84	50 - 133
1,2,4-Trimethylbenzene	50.0	44.9		ug/L		90	70 - 123
1,3,5-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
Vinyl chloride	50.0	47.5		ug/L		95	64 - 126
Xylenes, Total	100	95.2		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/18/23 06:12	01/21/23 03:40	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/18/23 06:12	01/21/23 03:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/18/23 06:12	01/21/23 03:40	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/18/23 06:12	01/21/23 03:40	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/18/23 06:12	01/21/23 03:40	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/18/23 06:12	01/21/23 03:40	1
DONA	<0.40		2.0	0.40	ng/L		01/18/23 06:12	01/21/23 03:40	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/18/23 06:12	01/21/23 03:40	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/18/23 06:12	01/21/23 03:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFPeA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFHxA	*132*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFHpA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C4 PFOA	*108*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C5 PFNA	*117*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDA	*115*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFUnA	*120*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFDoA	*112*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*
13C2 PFTeDA	*114*		*25 - 150*	*01/18/23 06:12*	*01/21/23 03:40*	*1*

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

Lab Sample ID: MB 320-647722/1-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	118		25 - 150	01/18/23 06:12	01/21/23 03:40	1
18O2 PFHxS	119		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C4 PFOS	111		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C8 FOSA	127		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d3-NMeFOSAA	122		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d5-NEtFOSAA	127		25 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-MeFOSA-M	96		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d-N-EtFOSA-M	105		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d7-N-MeFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
d9-N-EtFOSE-M	111		10 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-4:2 FTS	103		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-6:2 FTS	95		25 - 150	01/18/23 06:12	01/21/23 03:40	1
M2-8:2 FTS	97		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C3 HFPO-DA	131		25 - 150	01/18/23 06:12	01/21/23 03:40	1
13C2 10:2 FTS	88		25 - 150	01/18/23 06:12	01/21/23 03:40	1

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	44.0		ng/L		110	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.1		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.7		ng/L		117	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.1		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	47.7		ng/L		119	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.5		ng/L		116	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.7		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	51.5		ng/L		129	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	47.2		ng/L		118	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	43.8		ng/L		110	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	40.5		ng/L		114	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	42.0		ng/L		112	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	40.8		ng/L		112	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.0		ng/L		105	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	43.8		ng/L		118	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	47.3		ng/L		123	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.4		ng/L		107	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.7		ng/L		110	60 - 135

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

Lab Sample ID: LCS 320-647722/2-A
Matrix: Water
Analysis Batch: 648807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		104	60 - 135
NEtFOSA	40.0	44.3		ng/L		111	60 - 135
NMeFOSA	40.0	52.8		ng/L		132	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.7		ng/L		104	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.4		ng/L		111	60 - 135
NMeFOSE	40.0	46.0		ng/L		115	60 - 135
NEtFOSE	40.0	46.3		ng/L		116	60 - 135
4:2 FTS	37.5	32.4		ng/L		86	60 - 135
6:2 FTS	38.1	46.4		ng/L		122	60 - 135
8:2 FTS	38.4	39.8		ng/L		104	60 - 135
DONA	37.8	47.3		ng/L		125	60 - 135
HFPO-DA (GenX)	40.0	41.9		ng/L		105	60 - 135
F-53B Major	37.4	45.5		ng/L		122	60 - 135
F-53B Minor	37.8	41.3		ng/L		109	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*84*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*97*		*25 - 150*
13C4 PFOA	*100*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
13C2 PFTeDA	*85*		*25 - 150*
13C3 PFBS	*91*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
13C8 FOSA	*92*		*10 - 150*
d3-NMeFOSAA	*97*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*67*		*10 - 150*
d-N-EtFOSA-M	*79*		*10 - 150*
d7-N-MeFOSE-M	*81*		*10 - 150*
d9-N-EtFOSE-M	*83*		*10 - 150*
M2-4:2 FTS	*118*		*25 - 150*
M2-6:2 FTS	*74*		*25 - 150*
M2-8:2 FTS	*89*		*25 - 150*
13C3 HFPO-DA	*109*		*25 - 150*
13C2 10:2 FTS	*87*		*25 - 150*

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	46.1		ng/L		115	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)			40.0	46.6		ng/L		117	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)			40.0	45.6		ng/L		114	60 - 135	10	30
Perfluoroheptanoic acid (PFHpA)			40.0	45.2		ng/L		113	60 - 135	3	30
Perfluorooctanoic acid (PFOA)			40.0	42.9		ng/L		107	60 - 135	2	30
Perfluorononanoic acid (PFNA)			40.0	45.4		ng/L		114	60 - 135	5	30
Perfluorodecanoic acid (PFDA)			40.0	50.0		ng/L		125	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	46.8		ng/L		117	60 - 135	9	30
Perfluorododecanoic acid (PFDoA)			40.0	50.5		ng/L		126	60 - 135	2	30
Perfluorotridecanoic acid (PFTriA)			40.0	46.5		ng/L		116	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)			40.0	47.5		ng/L		119	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)			35.5	39.1		ng/L		110	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	38.9		ng/L		103	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.5		ng/L		105	60 - 135	6	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	42.3		ng/L		111	60 - 135	6	30
Perfluorooctanesulfonic acid (PFOS)			37.2	41.5		ng/L		112	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)			38.5	46.8		ng/L		122	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	46.5		ng/L		121	60 - 135	12	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	43.3		ng/L		112	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)			40.0	41.9		ng/L		105	60 - 135	0	30
NEtFOSA			40.0	42.7		ng/L		107	60 - 135	4	30
NMeFOSA			40.0	52.3		ng/L		131	60 - 135	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	46.0		ng/L		115	60 - 135	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	46.1		ng/L		115	60 - 135	4	30
NMeFOSE			40.0	45.4		ng/L		114	60 - 135	1	30
NEtFOSE			40.0	43.9		ng/L		110	60 - 135	5	30
4:2 FTS			37.5	45.8	*1	ng/L		122	60 - 135	34	30
6:2 FTS			38.1	51.2		ng/L		134	60 - 135	10	30
8:2 FTS			38.4	41.1		ng/L		107	60 - 135	3	30
DONA			37.8	45.9		ng/L		121	60 - 135	3	30
HFPO-DA (GenX)			40.0	42.3		ng/L		106	60 - 135	1	30
F-53B Major			37.4	42.5		ng/L		114	60 - 135	7	30
F-53B Minor			37.8	40.0		ng/L		106	60 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*95*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*

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

Lab Sample ID: LCSD 320-647722/3-A
Matrix: Water
Analysis Batch: 648490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 647722

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	105		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	106		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	92		25 - 150
13C3 PFBS	108		25 - 150
18O2 PFHxS	109		25 - 150
13C4 PFOS	104		25 - 150
13C8 FOSA	107		10 - 150
d3-NMeFOSAA	103		25 - 150
d5-NEtFOSAA	104		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	95		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	69		25 - 150
M2-8:2 FTS	81		25 - 150
13C3 HFPO-DA	109		25 - 150
13C2 10:2 FTS	80		25 - 150

Lab Sample ID: MB 320-648235/1-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/20/23 05:42	01/25/23 11:05	1

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

Lab Sample ID: MB 320-648235/1-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/20/23 05:42	01/25/23 11:05	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/20/23 05:42	01/25/23 11:05	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/20/23 05:42	01/25/23 11:05	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/20/23 05:42	01/25/23 11:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		01/20/23 05:42	01/25/23 11:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		01/20/23 05:42	01/25/23 11:05	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/20/23 05:42	01/25/23 11:05	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/20/23 05:42	01/25/23 11:05	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/25/23 11:05	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/20/23 05:42	01/25/23 11:05	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/20/23 05:42	01/25/23 11:05	1
DONA	<0.40		2.0	0.40	ng/L		01/20/23 05:42	01/25/23 11:05	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/20/23 05:42	01/25/23 11:05	1
F-53B Major	<0.24		2.0	0.24	ng/L		01/20/23 05:42	01/25/23 11:05	1
F-53B Minor	<0.32		2.0	0.32	ng/L		01/20/23 05:42	01/25/23 11:05	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C5 PFPeA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 PFHxA	*102*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C4 PFHpA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C4 PFOA	*98*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C5 PFNA	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 PFDA	*88*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 PFUnA	*100*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 PFDoA	*88*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C3 PFBS	*89*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
18O2 PFHxS	*92*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C4 PFOS	*89*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C8 FOSA	*90*		*10 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d3-NMeFOSAA	*92*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d-N-MeFOSA-M	*72*		*10 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d-N-EtFOSA-M	*74*		*10 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d7-N-MeFOSE-M	*88*		*10 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
d9-N-EtFOSE-M	*83*		*10 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
M2-4:2 FTS	*101*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C3 HFPO-DA	*107*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*
13C2 10:2 FTS	*80*		*25 - 150*	*01/20/23 05:42*	*01/25/23 11:05*	*1*

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

Lab Sample ID: LCS 320-648235/2-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	50.3		ng/L		126	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	45.9		ng/L		115	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	47.5		ng/L		119	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	46.3		ng/L		116	60 - 135
Perfluorononanoic acid (PFNA)	40.0	45.7		ng/L		114	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.9		ng/L		110	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.4		ng/L		103	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	49.5		ng/L		124	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	45.3		ng/L		113	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	42.0		ng/L		118	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	45.4		ng/L		121	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.7		ng/L		106	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	46.7		ng/L		122	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	45.4		ng/L		122	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	46.4		ng/L		121	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	47.1		ng/L		122	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	43.4		ng/L		112	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	42.9		ng/L		107	60 - 135
NEtFOSA	40.0	45.6		ng/L		114	60 - 135
NMeFOSA	40.0	49.1		ng/L		123	60 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	48.3		ng/L		121	60 - 135
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.7		ng/L		107	60 - 135
NMeFOSE	40.0	44.1		ng/L		110	60 - 135
NEtFOSE	40.0	47.3		ng/L		118	60 - 135
4:2 FTS	37.5	35.2		ng/L		94	60 - 135
6:2 FTS	38.1	39.5		ng/L		104	60 - 135
8:2 FTS	38.4	45.9		ng/L		119	60 - 135
DONA	37.8	51.1		ng/L		135	60 - 135
HFPO-DA (GenX)	40.0	40.4		ng/L		101	60 - 135
F-53B Major	37.4	47.4		ng/L		127	60 - 135
F-53B Minor	37.8	47.5		ng/L		126	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*

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

Lab Sample ID: LCS 320-648235/2-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648235

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFHxA	*104*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C4 PFOA	*99*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*94*		*25 - 150*
13C2 PFUnA	*105*		*25 - 150*
13C2 PFDoA	*94*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*88*		*25 - 150*
18O2 PFHxS	*100*		*25 - 150*
13C4 PFOS	*88*		*25 - 150*
13C8 FOSA	*95*		*10 - 150*
d3-NMeFOSAA	*95*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*71*		*10 - 150*
d-N-EtFOSA-M	*76*		*10 - 150*
d7-N-MeFOSE-M	*92*		*10 - 150*
d9-N-EtFOSE-M	*85*		*10 - 150*
M2-4:2 FTS	*99*		*25 - 150*
M2-6:2 FTS	*97*		*25 - 150*
M2-8:2 FTS	*86*		*25 - 150*
13C3 HFPO-DA	*111*		*25 - 150*
13C2 10:2 FTS	*81*		*25 - 150*

Lab Sample ID: LCSD 320-648235/3-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	44.7		ng/L		112	60 - 135	12	30
Perfluoropentanoic acid (PFPeA)			40.0	43.1		ng/L		108	60 - 135	6	30
Perfluorohexanoic acid (PFHxA)			40.0	43.6		ng/L		109	60 - 135	9	30
Perfluoroheptanoic acid (PFHpA)			40.0	44.4		ng/L		111	60 - 135	7	30
Perfluorooctanoic acid (PFOA)			40.0	42.3		ng/L		106	60 - 135	9	30
Perfluorononanoic acid (PFNA)			40.0	45.5		ng/L		114	60 - 135	0	30
Perfluorodecanoic acid (PFDA)			40.0	45.5		ng/L		114	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)			40.0	43.7		ng/L		109	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)			40.0	45.9		ng/L		115	60 - 135	8	30
Perfluorotridecanoic acid (PFTriA)			40.0	45.3		ng/L		113	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.3		ng/L		103	60 - 135	3	30
Perfluorobutanesulfonic acid (PFBS)			35.5	35.3		ng/L		100	60 - 135	17	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	44.6		ng/L		119	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	38.1		ng/L		105	60 - 135	1	30

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

Lab Sample ID: LCSD 320-648235/3-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)			38.2	45.0		ng/L		118	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)			37.2	42.2		ng/L		114	60 - 135	7	30
Perfluorononanesulfonic acid (PFNS)			38.5	46.5		ng/L		121	60 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	45.9		ng/L		119	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	41.0		ng/L		106	60 - 135	6	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.1		ng/L		108	60 - 135	0	30
NEtFOSA			40.0	44.0		ng/L		110	60 - 135	4	30
NMeFOSA			40.0	47.2		ng/L		118	60 - 135	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	45.7		ng/L		114	60 - 135	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	43.6		ng/L		109	60 - 135	2	30
NMeFOSE			40.0	44.4		ng/L		111	60 - 135	1	30
NEtFOSE			40.0	43.7		ng/L		109	60 - 135	8	30
4:2 FTS			37.5	34.9		ng/L		93	60 - 135	1	30
6:2 FTS			38.1	41.4		ng/L		109	60 - 135	5	30
8:2 FTS			38.4	48.8		ng/L		127	60 - 135	6	30
DONA			37.8	48.1		ng/L		127	60 - 135	6	30
HFPO-DA (GenX)			40.0	40.0		ng/L		100	60 - 135	1	30
F-53B Major			37.4	45.8		ng/L		123	60 - 135	3	30
F-53B Minor			37.8	47.1		ng/L		125	60 - 135	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*101*		*25 - 150*
13C2 PFHxA	*105*		*25 - 150*
13C4 PFHpA	*101*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*94*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*97*		*25 - 150*
18O2 PFHxS	*99*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
13C8 FOSA	*88*		*10 - 150*
d3-NMeFOSAA	*94*		*25 - 150*
d5-NEtFOSAA	*97*		*25 - 150*
d-N-MeFOSA-M	*71*		*10 - 150*
d-N-EtFOSA-M	*75*		*10 - 150*
d7-N-MeFOSE-M	*89*		*10 - 150*
d9-N-EtFOSE-M	*87*		*10 - 150*
M2-4:2 FTS	*118*		*25 - 150*
M2-6:2 FTS	*96*		*25 - 150*

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

Lab Sample ID: LCSD 320-648235/3-A
Matrix: Water
Analysis Batch: 649279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648235

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	76		25 - 150
13C3 HFPO-DA	110		25 - 150
13C2 10:2 FTS	94		25 - 150

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

Client Sample ID: MW-218
Lab Sample ID: 500-228026-3
Date Collected: 01/09/23 15:50
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 04:32

Client Sample ID: MW-217
Lab Sample ID: 500-228026-13
Date Collected: 01/10/23 15:37
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694064	PSP	EET CHI	01/16/23 12:22
Total/NA	Prep	3535			647722	EJR	EET SAC	01/18/23 06:12
Total/NA	Analysis	537 (modified)		1	648490	S1M	EET SAC	01/21/23 06:25

Client Sample ID: MW-217 DUP
Lab Sample ID: 500-228026-54
Date Collected: 01/10/23 15:39
Matrix: Water
Date Received: 01/13/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	694276	W1T	EET CHI	01/17/23 20:11
Total/NA	Prep	3535			648235	EFG	EET SAC	01/20/23 05:44
Total/NA	Analysis	537 (modified)		1	649279	K1S	EET SAC	01/25/23 15:52

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: 500-228026-3
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

Chain of Custody Record

eurofins

Client Information	Sampler: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking Nos:	COC No: 500-108575-45177 1
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 6 ≈ 1/17/23
Company: Ramboll US Corporation	PWSID:	Analysis Requested		Job #: 500-228026
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):			
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#:			

500-228026 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)	8260B VOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	A		
1 MW-228	1-9-2023	1322	G	Water	N	N	X			
2 AMEC_MW-15	1-9-2023	1453		Water	N	N	X			
3 MW-218	1-9-2023	1550		Water	N	N	X			
4 MW-209	1-10-2023	0817		Water	N	N	X	X		
5 EB-02	1-9-2023	1605		Water	N	N	X			
6 FB-02	1-9-2023	1610		Water	N	N	X			
7 MW-235	1-10-2023	0927		Water	N	N	X			
8 MW-238	1-10-2023	1010		Water	N	N	X			
9 PZ-226	1-10-2023	1121		Water	N	N	X			
10 MW-226	1-10-2023	1222		Water	N	N	X			
11 AMEC-MW16	1-10-2023	1421		Water	N	N	X			

1-11-23

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological	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
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	Date/Time: 1.12.23 1700	Company: Eurofins	Received by	1/13/23 0930	Company: EETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperatures C and Other Remarks	Ver: 06/08/2021
		2.8 → 1.9	

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: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking No(s)	COC No: 500 108575-45177 4
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 2 of 10 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026

Analysis Requested

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@rambol com	WO #
Project Name: Former Mirro Plant No 9 1690019647	Project #: 50018382
Site	SSOW#

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)	8260B VOC	Total Number of containers	Special Instructions/Note
					Preservation Code	X	X	N	A	X	
12	AMEC_MW-16A	1-10-23	1455	G	Water			X			
13	MW-217	1-10-23	1537	G	Water			X	X		
14	FB-04	1-10-23	1525	↓	Water			X			
15	EB-04	1-10-23	1600		Water			X	X		
16	AMEC-MW-14	1-11-23	0800		Water			X			
17	AMEC_MW-17	↓	0840		Water			X			
18	MW-219		0948		Water				X		
19	MW-121		1040		Water				X		
20	MW-12		1146		Water			X			
21	MW-12 Dup	↓	1148	↓	Water			X			
~~22~~ SS 1/13/23					Water						

SJM 1-11-23

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: [signature]	Date/Time: 1-12-23 1000	Company: RAMBOLL	Received by: [signature]	Date/Time: 1.12.23 1000	Company: Eurofins
Relinquished by: [signature]	Date/Time: 1.12.23 1700	Company: Eurofins	Received by: [signature] Scott	Date/Time: 1/13/23 0930	Company: EETA
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 06.08.2021

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: Sarah Jo Martens	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-108575-45177.3
Client Contact: Paul Lindquist	Phone: 920-750-1181	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 3 of 10 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
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 16900 19647	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=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8260B VOC	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A		
22	FB-06	1-11-23	1209	G	Water	N	N	X			
23	EB-06	1-21-23	1212	G	Water	N	N	X	X		
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						

1-11-23

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	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
Relinquished by	1.12.23 1700	Eurofins		1/13/23 0930	ERTA
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: 06/08/2021

2/3/2023

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 4 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901 3510(Tel)	PO #: 1690019647			
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
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals) Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	A	D	D	D	D	D	N		
24	MW-201	1 9 23	1301	G	Water			X									
25	MW-204		1350		Water			X									
26	~~MW~~ PZ-206		1435		Water			X									
27	MW-213		1520		Water			X	X								
28	MW-213 DUP		1520		Water			X	X								
29	MW-82		1615		Water				X								
30	FB-01		1625		Water			X									
31	EB-01		1630		Water			X	X								
32	AECOM MW-19	1.10.23	755		Water				X								
33	MW-17		835		Water				X								
34	PZ-214		925		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		1.12.23 1000	RAMBOLL		1.12.23 1000	Eurofins
2	Relinquished by	Date/Time 1.12.23 1700	Company Eurofins	Received by	Date/Time 1/13/23 0930	Company FEDEX
3	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

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

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	D. GLASFORD	Fredrick Sandie		500-87887-39456 1
Client Contact: Paul Lindquist	Phone	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 5 of 6
Company: Ramboll US Corporation	PWSID			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262 901-3510(Tel)	PO #: 1690019647			
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
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals) Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
				Preservation Code				N	A	D	D	D	D	D	N		
35	MW-8	1-10-23	1025	G	Water				X								
36	MW-3		1130		Water				X								
37	MW-37		1255		Water				X								
38	MW-19		1340		Water				X								
39	MW-48		1445		Water			X									
40	MW-9		1540		Water			X	X								
41	MW-9 DUP		1540		Water			X	X								
42	EB-03		1610		Water			X	X								
43	FB-03		1615		Water			X									
44	PZ-200	1-11-23	800		Water			X									
45	MW-200		840		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]	1-12-23 1000	Ramboll	[signature]	1.12.23 1000	Eurofins
2	[signature]	1.12.23 1700	Eurofins	[signature]	1/13/23 0930	EBTA
3						

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

Cooler Temperature(s) °C and Other Remarks

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

Chain of Custody Record

eurofins

Client Information	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-87887-39456 1
Client Contact: Paul Lindquist	Phone:	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 6 of 6
Company: Ramboll US Corporation	PWSID:			Job #: 500-228026
Address: 234 W Florida Street	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI 53204	Compliance Project: Δ Yes Δ No			
Phone: 262-901-3510(Tel)	PO #: 1690019647			
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, 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)	PFAS Extended List (36 Analytes) PFC_IDA_WI	VOCs 8260B	6020A (Metals): Al	Sb	As	Cr	Pb	PCBs 8082A	Total Number of containers	Special Instructions/Note
	Preservation Code:							N	A	D	D	D	D	D	N		
46	MW-5	1011.23	855	G	Water				X								
47	MW-31		940		Water				X								
48	MW-16		1020		Water				X								
49	MW-15		1100		Water				X								
50	EB-05		1130		Water			X	X								
51	FB-05		1135		Water			X									
52	TRIP BLANK	—	—		Water				X								
53	MW 209 DUP	1.10.23	820	G	Water			X	X								
54	MW-217 DUP	1-10 23	1539		Water			X	X								
					Water												
					Water												

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

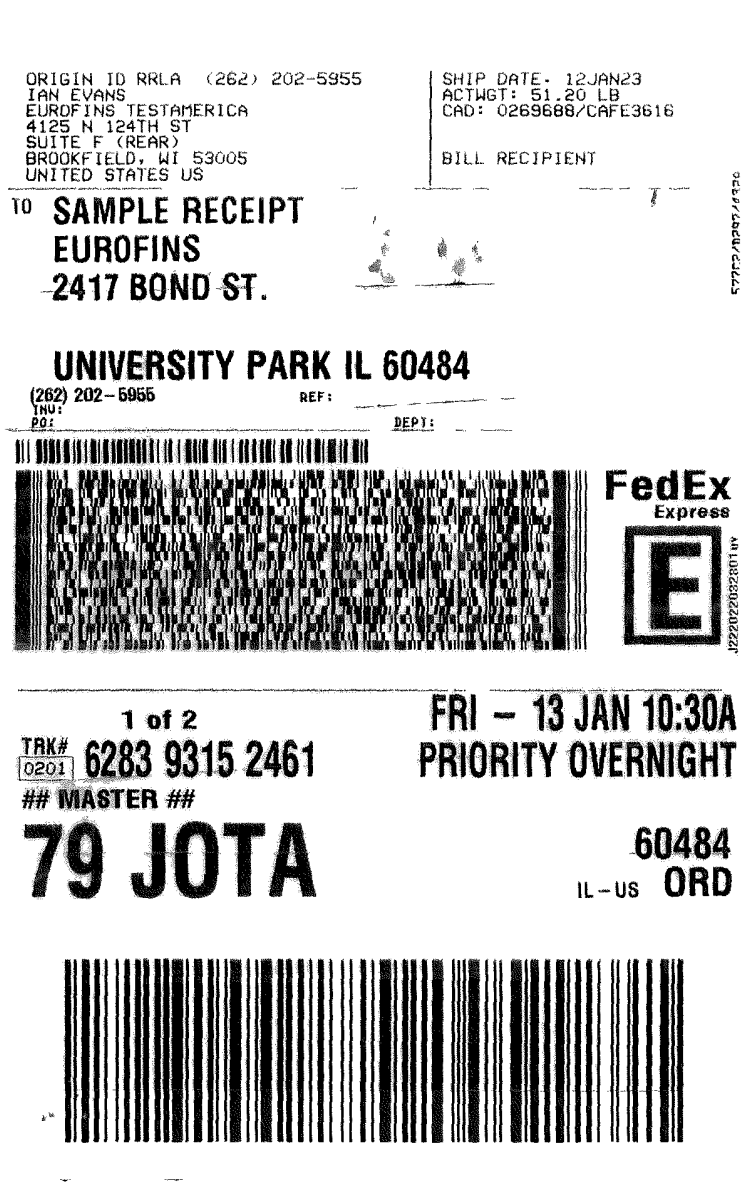
Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1-12-23 1000	RAMBOLL		1.12.23 1000	Eurofins
	1.13.23 1700	Eurofins		1/13/23 0930	BBTA

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

Ver 01/16/2019

500-228026 Waybi



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: 12JAN23
ACTWGT: 51.20 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484
(262) 202-5955 REF:
INV:
PO: DEPT:

FedEx
Express

1 of 2

FRI - 13 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 6283 9315 2461

MASTER

79 JOTA

60484
IL-US ORD

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-228026-3
SDG Number:

Login Number: 228026
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	1.9
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: 500-228026-3
SDG Number:

Login Number: 228026
List Number: 2
Creator: Pratali, Sandra A

List Source: Eurofins Sacramento
List Creation: 01/16/23 05:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2077255
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-3
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)
500-228026-3	MW-218	91	97	106	112	102	102	97	105
500-228026-13	MW-217	77	103	93	97	100	96	92	95
500-228026-54	MW-217 DUP	73	95	98	98	100	101	88	88
LCS 320-647722/2-A	Lab Control Sample	84	85	102	97	100	93	96	97
LCS 320-648235/2-A	Lab Control Sample	99	96	104	100	99	99	94	105
LCSD 320-647722/3-A	Lab Control Sample Dup	95	96	105	97	106	102	99	99
LCSD 320-648235/3-A	Lab Control Sample Dup	103	101	105	101	102	92	96	106
MB 320-647722/1-A	Method Blank	112	114	132	112	108	117	115	120
MB 320-648235/1-A	Method Blank	95	98	102	98	98	93	88	100

		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)
500-228026-3	MW-218	90	91	123	112	103	117	108	118
500-228026-13	MW-217	76	76	116	100	93	108	88	93
500-228026-54	MW-217 DUP	75	72	103	88	83	92	89	105
LCS 320-647722/2-A	Lab Control Sample	85	85	91	92	87	92	97	98
LCS 320-648235/2-A	Lab Control Sample	94	93	88	100	88	95	95	98
LCSD 320-647722/3-A	Lab Control Sample Dup	96	92	108	109	104	107	103	104
LCSD 320-648235/3-A	Lab Control Sample Dup	94	93	97	99	90	88	94	97
MB 320-647722/1-A	Method Blank	112	114	118	119	111	127	122	127
MB 320-648235/1-A	Method Blank	88	94	89	92	89	90	92	101

		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)
500-228026-3	MW-218	82	90	95	98	96	79	86	117
500-228026-13	MW-217	82	86	85	81	83	65	74	116
500-228026-54	MW-217 DUP	63	67	67	68	110	125	100	117
LCS 320-647722/2-A	Lab Control Sample	67	79	81	83	118	74	89	109
LCS 320-648235/2-A	Lab Control Sample	71	76	92	85	99	97	86	111
LCSD 320-647722/3-A	Lab Control Sample Dup	80	86	95	92	89	69	81	109
LCSD 320-648235/3-A	Lab Control Sample Dup	71	75	89	87	118	96	76	110
MB 320-647722/1-A	Method Blank	96	105	111	111	103	95	97	131
MB 320-648235/1-A	Method Blank	72	74	88	83	101	97	93	107

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-228026-3	MW-218	63
500-228026-13	MW-217	61
500-228026-54	MW-217 DUP	109
LCS 320-647722/2-A	Lab Control Sample	87
LCS 320-648235/2-A	Lab Control Sample	81
LCSD 320-647722/3-A	Lab Control Sample Dup	80
LCSD 320-648235/3-A	Lab Control Sample Dup	94
MB 320-647722/1-A	Method Blank	88
MB 320-648235/1-A	Method Blank	80

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Isotope Dilution Summary

Client: Ramboll US Corporation
Job ID: 500-228026-3
Project/Site: Former Mirro Plant No 9 - 1690019647

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