

Appendix A

Mass Balance, DRE, and Emission Calculations

Appendix A-1

Mass Balance, DRE and Emission Calculations Data Reduction

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Table A-1-1. Target Analyte and Spiked Compounds Lists

PFAS Category	OTM-45 ^(a) Target Analyte	EPA 1633 ^(b) Target Analyte	Spiked ^(c) Compound	CAS No.	PFAS Compound Name	Acronym	Molecular Formula	Structure
Perfluoroalkyl Carboxylic Acids (PFCA)	X	X	X	375-22-4	Perfluorobutanoic acid	PFBA	C ₄ HF ₇ O ₂	
	X	X	---	2706-90-3	Perfluoropentanoic acid	PFPeA	C ₅ HF ₉ O ₂	
	X	X	X	307-24-4	Perfluorohexanoic acid	PFHxA	C ₆ HF ₁₁ O ₂	
	X	X	---	375-85-9	Perfluoroheptanoic acid	PFHpA	C ₇ HF ₁₃ O ₂	
	X	X	X	335-67-1	Perfluorooctanoic acid	PFOA	C ₈ HF ₁₅ O ₂	
	X	X	X	375-95-1	Perfluorononanoic acid	PFNA	C ₉ HF ₁₇ O ₂	
	X	X	X	335-76-2	Perfluorodecanoic acid	PFDA	C ₁₀ HF ₁₉ O ₂	
	X	X	---	2058-94-8	Perfluoroundecanoic acid	PFUnA	C ₁₁ HF ₂₁ O ₂	
	X	X	---	307-55-1	Perfluorododecanoic acid	PFDoA	C ₁₂ HF ₂₃ O ₂	
	X	X	---	72629-94-8	Perfluorotridecanoic acid	PFTriA	C ₁₃ HF ₂₅ O ₂	
	X	X	---	376-06-7	Perfluorotetradecanoic acid	PFTeA	C ₁₄ HF ₂₇ O ₂	
	X	---	---	67905-19-5	Perfluorohexadecanoic acid	PFHxDA	C ₁₆ HF ₃₁ O ₂	

Table A-1-1. Target Analyte and Spiked Compounds Lists

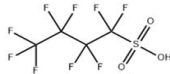
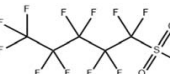
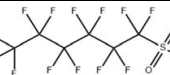
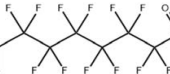
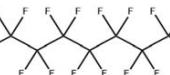
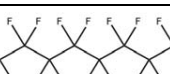
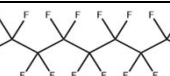
PFAS Category	OTM-45 ^(a) Target Analyte	EPA 1633 ^(b) Target Analyte	Spiked ^(c) Compound	CAS No.	PFAS Compound Name	Acronym	Molecular Formula	Structure
	X	---	---	16517-11-6	Perfluorooctadecanoic acid	PFODA	C ₁₈ HF ₃₅ O ₂	
Perfluorinated Sulfonic Acids (PFSA)	X	X	X	375-73-5	Perfluorobutanesulfonic acid	PFBS	C ₄ HF ₉ O ₃ S	
	X	X	---	2706-91-4	Perfluoropentanesulfonic acid	PFPeS	C ₅ HF ₁₁ O ₃ S	
	X	X	X	355-46-4	Perfluorohexanesulfonic acid	PFHxS	C ₆ HF ₁₃ O ₃ S	
	X	X	---	375-92-8	Perfluoroheptanesulfonic acid	PFHpS	C ₇ HF ₁₅ O ₃ S	
	X	X	X	1763-23-1	Perfluorooctanesulfonic acid	PFOS	C ₈ HF ₁₇ O ₃ S	
	X	X	---	68259-12-1	Perfluorononanesulfonic acid	PFNS	C ₉ HF ₁₉ O ₃ S	
	X	X	---	335-77-3	Perfluorodecanesulfonic acid	PFDS	C ₁₀ HF ₂₁ O ₃ S	
	X	X	---	79780-39-5	Perfluorododecanesulfonic acid	PFDoS	C ₁₂ HF ₂₅ O ₃ S	
Perfluorinated Sulfonamides (FOSA)	X	X	---	754-91-6	Perfluorooctanesulfonamide	FOSA	C ₈ H ₂ F ₁₇ NO ₂ S	
	X	X	---	31506-32-8	N-Methyl-Perfluorooctane Sulfonamide	NMeFOSA	C ₉ H ₄ F ₁₇ NO ₂ S	
	X	X	---	4151-50-2	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	C ₁₀ H ₆ F ₁₇ NO ₂ S	

Table A-1-1. Target Analyte and Spiked Compounds Lists

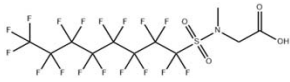
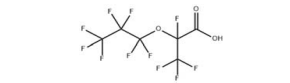
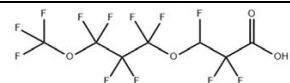
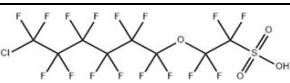
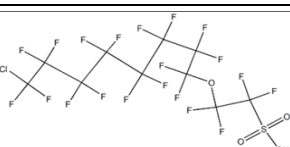
PFAS Category	OTM-45 ^(a) Target Analyte	EPA 1633 ^(b) Target Analyte	Spiked ^(c) Compound	CAS No.	PFAS Compound Name	Acronym	Molecular Formula	Structure
Perfluorinated Sulfonamidoacetic Acids (FOSAA)	X	X	---	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	C ₁₁ H ₆ F ₁₇ NO ₄ S	
	X	X	---	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	C ₁₂ H ₈ F ₁₇ NO ₄ S	
Perfluorinated Sulfonamide Ethanols (FOSE)	X	X	---	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	N-MeFOSE	C ₁₁ H ₈ F ₁₇ NO ₃ S	
	X	X	---	1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	N-EtFOSE	C ₁₂ H ₁₀ F ₁₇ NO ₃ S	
Fluorotelomer Sulfonates (FTS)	X	X	---	757124-72-4	1H, 1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid	4:2 FTS	C ₆ H ₅ F ₉ O ₃ S	
	X	X	---	27619-97-2	1H, 1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid	6:2 FTS	C ₈ H ₅ F ₁₃ O ₃ S	
	X	X	---	39108-34-4	1H, 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid	8:2 FTS	C ₁₀ H ₅ F ₁₇ O ₃ S	
	X	---	---	120226-60-0	1H, 1H, 1H, 2H, 2H-Perfluoroundecanesulfonic acid	10:2 FTS	C ₁₂ H ₅ F ₂₁ O ₃ S	
Fluorinated Replacement Chemicals	X	X	X	13252-13-6	Hexafluoropropylene oxide dimer acid	HFPO-DA	C ₆ HF ₁₁ O ₃	
	X	X	---	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid	DONA	C ₇ H ₂ F ₁₂ O ₄	
	X	X	---	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	C ₈ HClF ₁₆ O ₄ S	
	X	X	---	763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OudS	C ₁₀ Cl ₂₀ KO ₄ S	

Table A-1-1. Target Analyte and Spiked Compounds Lists

PFAS Category	OTM-45 ^(a) Target Analyte	EPA 1633 ^(b) Target Analyte	Spiked ^(c) Compound	CAS No.	PFAS Compound Name	Acronym	Molecular Formula	Structure
Additional Targets	X	X	---	377-73-1	Perfluoro-3-methoxypropanoic acid	PFECA F	C ₄ HF ₇ O ₃	
	X	X	---	863090-89-5	Perfluoro-4-methoxybutanoic acid	PFECA A	C ₅ HF ₉ O ₃	
	X	X	---	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	PFECA B	C ₅ HF ₉ O ₄	
	X	X	---	113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid	PES	C ₄ HF ₉ O ₄ S	
	X	X	---	356-02-5	3-Perfluoropropylpropanoic acid	3:3 FTCA	C ₆ H ₅ F ₇ O ₂	
	X	X	---	914637-49-3	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	C ₈ H ₅ F ₁₁ O ₂	
	X	X	---	812-70-4	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	C ₁₀ H ₅ F ₁₅ O ₂	
	X	---	---	70887-84-2	8:2 Fluorotelomer unsaturated acid	8:2 FTUCA	C ₁₀ H ₂ F ₁₆ O ₂	
	X	---	---	53826-13-4	10:2 Fluorotelomer carboxylic acid	10:2 FTCA	C ₁₂ H ₃ F ₂₁ O ₂	
	X	---	---	27854-31-5	8:2 Fluorotelomer carboxylic acid	8:2 FTCA	C ₁₀ H ₃ F ₁₇ O ₂	

Table A-1-1. Target Analyte and Spiked Compounds Lists

PFAS Category	OTM-45 ^(a) Target Analyte	EPA 1633 ^(b) Target Analyte	Spiked ^(c) Compound	CAS No.	PFAS Compound Name	Acronym	Molecular Formula	Structure
	X	---	---	53826-12-3	6:2 Fluorotelomer carboxylic acid	6:2 FTCA	C ₈ H ₃ F ₁₃ O ₂	
	X	---	---	133201-07-7	Perfluoro(perfluoroethyl)cyclohexanesulfonic acid	PFECHS	C ₈ HF ₁₅ O ₃ S	
	X	---	---	70887-88-6	6:2 Fluorotelomer unsaturated acid	6:2 FTUCA	C ₈ H ₂ F ₁₂ O ₂	
Count	49	40	9					

(a) Analytical method used for stack gas samples.

(b) Analytical method used for process samples.

(c) Analyte spiked to have enough mass in the feed to demonstrate >99.9999% DRE.

Yellow shading indicates spiked compound.

Table A-1-2. Mass Balance Summary - Total PFAS Compounds

Run No.	Waste Feeds									Chemicals			Pro. Water	Residuals			Stack Gas
	Waste Blend Liquid (lb/hr)	UMO (lb/hr)	Aqueous Liquid (lb/hr)	Drum Direct Burn Educt (lb/hr)	Tote Direct Burn Educt (lb/hr)	Corrosive Waste (lb/hr)	Tanker Direct Burn (AFFF) (lb/hr)	Total Waste Feeds (lb/hr)	PFAS Spike (lb/hr)	TMT-15 (lb/hr)	Soda Ash Solution (lb/hr)	Powdered Activated Carbon (lb/hr)	Process Water (lb/hr)	Slag/Ash (lb/hr)	Spray Dryer Solids (lb/hr)	Baghouse Dust (lb/hr)	Stack Gas (lb/hr)
1A	2.35E-04	6.54E-06	3.29E-05	0.00E+00	4.11E-06	1.11E-06	7.06E+00	7.06E+00	1.64E+00	1.61E-10	1.12E-07	2.64E-07	2.68E-06	4.99E-04	3.29E-08	2.01E-06	2.17E-05
2A	7.52E-06	5.76E-06	6.23E-05	0.00E+00	5.96E-06	6.07E-07	6.63E+00	6.63E+00	1.43E+00	4.99E-10	0.00E+00	4.11E-08	2.68E-08	6.69E-04	5.52E-08	0.00E+00	2.74E-04
3A	1.34E-04	6.18E-06	5.82E-05	0.00E+00	3.93E-06	1.82E-06	5.88E+00	5.88E+00	1.68E+00	2.80E-09	0.00E+00	5.59E-08	1.04E-08	1.81E-04	3.44E-08	2.54E-07	1.63E-05

Table A-1-3. Summary of PFAS Stack Emission Concentrations

PFAS Category	CAS No. ^(d,e)	Acronym	Run 1A ^(a,b,c)	Run 2A ^(a,b,c)	Run 3A ^(a,b,c)	Average Concentration (ng/dscm @7% O ₂)
			Stack Gas Conc. (ng/dscm @7% O ₂)	Stack Gas Conc. (ng/dscm @7% O ₂)	Stack Gas Conc. (ng/dscm @7% O ₂)	
PFCA	375-22-4	PFBA	< 5.68	< 4.70	< 4.26	< 4.88
	2706-90-3	PFPeA	< 12.78	< 8.30	< 2.44	< 7.84
	307-24-4	PFHxA	< 2.21	< 0.66	< 0.76	< 1.21
	375-85-9	PFHpA	< 4.05	< 4.49	< 1.67	< 3.40
	335-67-1	PFOA	< 1.00	< 1.50	< 0.79	< 1.09
	375-95-1	PFNA	< 0.37	< 7.47	< 0.24	< 2.69
	335-76-2	PFDA	< 0.36	< 0.35	< 0.35	ND
	2058-94-8	PFUnA	< 0.28	13.86	< 0.24	ND
	307-55-1	PFDoA	< 0.19	< 0.46	< 0.20	< 0.28
	72629-94-8	PFTriA	< 0.24	< 19.33	< 0.23	ND
	376-06-7	PFTeA	< 0.29	ND	< 0.28	ND
	67905-19-5	PFHxDA	< 0.33	ND	< 0.35	ND
	16517-11-6	PFODA	< 0.28	ND	< 0.28	ND
PFSA	375-73-5	PFBS	< 2.11	< 1.81	< 2.33	< 2.08
	2706-91-4	PFPeS	< 0.13	ND	< 0.14	ND
	355-46-4	PFHxS	< 0.15	ND	< 0.15	ND
	375-92-8	PFHpS	< 0.32	ND	< 0.30	ND
	1763-23-1	PFOS	< 0.44	< 0.47	< 0.58	< 0.50
	68259-12-1	PFNS	< 0.13	ND	< 0.15	ND
	335-77-3	PFDS	< 0.24	ND	< 0.23	ND
	79780-39-5	PFDoS	< 0.32	ND	< 0.31	ND
FOSA	754-91-6	FOSA	< 0.18	ND	< 0.18	ND
	31506-32-8	NMeFOSA	< 0.27	ND	< 0.27	ND
	4151-50-2	NEtFOSA	< 0.33	ND	< 0.30	ND
FOSAA	2355-31-9	NMeFOSAA	< 0.24	ND	< 0.22	ND
	2991-50-6	NEtFOSAA	< 0.20	ND	< 0.21	ND
FOSE	24448-09-7	N-MeFOSE	< 1.85	< 1.80	< 3.43	ND
	1691-99-2	N-EtFOSE	< 0.26	ND	< 0.26	ND
FTS	757124-72-4	4:2 FTS	< 0.13	ND	< 0.13	ND
	27619-97-2	6:2 FTS	< 1.71	ND	< 1.53	ND
	39108-34-4	8:2 FTS	< 0.26	ND	< 0.23	ND
	120226-60-0	10:2 FTS	< 0.31	ND	< 0.36	ND
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 161.24	2645.40	< 133.83	< 980.16
	919005-14-4	DONA	< 0.57	ND	< 0.55	ND
	756426-58-1	9CI-PF3ONS	< 0.15	ND	< 0.15	ND
	763051-92-9	11CI-PF3OUdS	< 0.27	ND	< 0.30	ND
Additional Targets	377-73-1	PFCEA F	< 0.41	ND	< 0.39	ND
	863090-89-5	PFCEA A	< 0.34	ND	< 0.29	ND
	151772-58-6	PFCEA B	< 1.21	< 0.20	< 0.26	ND
	113507-82-7	PES	< 0.24	ND	< 0.21	ND
	356-02-5	3:3 FTCA	< 0.46	ND	< 0.43	ND
	914637-49-3	5:3 FTCA	< 0.66	< 0.59	< 0.68	< 0.64
	812-70-4	7:3 FTCA	< 0.49	ND	< 0.49	ND
	70887-84-2	8:2 FTUCA	< 0.37	ND	< 0.32	ND
	53826-13-4	10:2 FTCA	< 0.81	ND	< 0.79	ND
	27854-31-5	8:2 FTCA	< 0.71	ND	< 0.65	ND
	53826-12-3	6:2FTCA	< 0.75	ND	< 0.73	ND
	133201-07-7	PFECHS	< 0.34	ND	< 0.32	ND
	70887-88-6	6:2 FTUCA	< 0.19	ND	< 0.19	ND
Subtotal Non-detect			12.20	8.92	17.61	10.73
Subtotal Detected			194.66	2712.39	147.78	1020.45
Grand Total			206.86	2721.31	165.39	1031.18

(a) Calculated with stack gas non-detects at the detection limit.

(b) ND - Analytical results non-detect in all four stack gas sample fractions (FH, BH, Condensate, Breakthrough XAD resin)

(c) Pink shading - detected analytical result in one or more stack gas sample fractions,

(d) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(e) Blue shading - not target analytes for EPA Method 1633.

Table A-1-4. Summary of PFAS Stack Emission Rates

PFAS Category	CAS No. ^(d,e)	Acronym	Run 1A ^(a,b,c) (lb/hr)	Run 2A ^(a,b,c) (lb/hr)	Run 3A ^(a,b,c) (lb/hr)
PFCA	375-22-4	PFBA	< 5.96E-07	< 4.74E-07	< 4.20E-07
	2706-90-3	PFPeA	< 1.34E-06	< 8.37E-07	< 2.41E-07
	307-24-4	PFHxA	< 2.33E-07	< 6.61E-08	< 7.49E-08
	375-85-9	PFHpA	< 4.25E-07	< 4.52E-07	< 1.65E-07
	335-67-1	PFOA	< 1.05E-07	< 1.51E-07	< 7.77E-08
	375-95-1	PFNA	< 3.93E-08	< 7.53E-07	< 2.38E-08
	335-76-2	PFDA	< 3.80E-08	< 3.52E-08	< 3.45E-08 ND
	2058-94-8	PFUnA	< 2.98E-08	< 1.40E-06	< 2.33E-08 ND
	307-55-1	PFDoA	< 1.95E-08	< 4.60E-08	< 2.02E-08
	72629-94-8	PFTriA	< 2.55E-08	< 1.95E-06	< 2.23E-08 ND
	376-06-7	PFTeA	< 3.05E-08 ND	< 5.90E-08	< 2.81E-08 ND
	67905-19-5	PFHxDA	< 3.49E-08 ND	< 4.48E-08	< 3.43E-08 ND
PFSA	16517-11-6	PFODA	< 2.98E-08 ND	< 2.15E-08	< 2.81E-08 ND
	375-73-5	PFBS	< 2.21E-07	< 1.82E-07	< 2.29E-07
	2706-91-4	PFPeS	< 1.40E-08 ND	< 9.61E-09 ND	< 1.37E-08 ND
	355-46-4	PFHxS	< 1.57E-08 ND	< 1.14E-08 ND	< 1.53E-08 ND
	375-92-8	PFHpS	< 3.38E-08 ND	< 2.52E-08 ND	< 2.92E-08 ND
	1763-23-1	PFOs	< 4.58E-08	< 4.77E-08	< 5.69E-08
	68259-12-1	PFNS	< 1.37E-08 ND	< 1.08E-08 ND	< 1.49E-08 ND
	335-77-3	PFDS	< 2.55E-08 ND	< 1.92E-08 ND	< 2.32E-08 ND
FOSA	79780-39-5	PFDoS	< 3.37E-08 ND	< 2.72E-08 ND	< 3.09E-08 ND
	754-91-6	FOSA	< 1.94E-08 ND	< 1.49E-08 ND	< 1.81E-08 ND
	31506-32-8	NMeFOSA	< 2.81E-08 ND	< 2.16E-08 ND	< 2.69E-08 ND
FOSAA	4151-50-2	NetFOSA	< 3.42E-08 ND	< 2.42E-08 ND	< 2.99E-08 ND
	2355-31-9	NMeFOSAA	< 2.48E-08 ND	< 1.73E-08 ND	< 2.15E-08 ND
FOSE	2991-50-6	NetFOSAA	< 2.11E-08 ND	< 1.55E-08 ND	< 2.04E-08 ND
	24448-09-7	N-MeFOSE	< 1.94E-07	< 1.81E-07	< 3.39E-07 ND
FTS	1691-99-2	N-EtFOSE	< 2.68E-08 ND	< 2.11E-08 ND	< 2.55E-08 ND
	757124-72-4	4:2 FTS	< 1.39E-08 ND	< 9.71E-09 ND	< 1.29E-08 ND
	27619-97-2	6:2 FTS	< 1.79E-07 ND	< 1.55E-07 ND	< 2.89E-07 ND
	39108-34-4	8:2 FTS	< 2.68E-08 ND	< 1.74E-08 ND	< 2.23E-08 ND
	120226-60-0	10:2 FTS	< 3.28E-08 ND	< 2.47E-08 ND	< 3.56E-08 ND
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 1.69E-05	< 2.67E-04	< 1.32E-05
	919005-14-4	DONA	< 6.03E-08 ND	< 4.90E-08 ND	< 5.45E-08 ND
	756426-58-1	9CI-PF3ONS	< 1.60E-08 ND	< 1.12E-08 ND	< 1.47E-08 ND
	763051-92-9	11CI-PF3OUdS	< 2.81E-08 ND	< 2.26E-08 ND	< 2.96E-08 ND
Additional Targets	377-73-1	PFECa F	< 4.36E-08 ND	< 3.26E-08 ND	< 3.81E-08 ND
	863090-89-5	PFECa A	< 3.61E-08 ND	< 2.20E-08 ND	< 2.89E-08 ND
	151772-58-6	PFECa B	< 1.27E-07	< 2.03E-08 ND	< 2.56E-08 ND
	113507-82-7	PES	< 2.47E-08 ND	< 1.56E-08 ND	< 2.05E-08 ND
	356-02-5	3:3 FTCA	< 4.86E-08 ND	< 3.26E-08 ND	< 4.27E-08 ND
	914637-49-3	5:3 FTCA	< 6.92E-08	< 5.91E-08	< 6.70E-08
	812-70-4	7:3 FTCA	< 5.09E-08 ND	< 3.63E-08 ND	< 4.85E-08 ND
	70887-84-2	8:2 FTUCA	< 3.85E-08 ND	< 2.42E-08 ND	< 3.19E-08 ND
	53826-13-4	10:2 FTCA	< 8.55E-08 ND	< 6.29E-08 ND	< 7.79E-08 ND
	27854-31-5	8:2 FTCA	< 7.51E-08 ND	< 5.13E-08 ND	< 6.37E-08 ND
	53826-12-3	6:2FTCA	< 7.87E-08 ND	< 5.64E-08 ND	< 7.16E-08 ND
	133201-07-7	PFECHS	< 3.59E-08 ND	< 2.42E-08 ND	< 3.19E-08 ND
	70887-88-6	6:2 FTUCA	< 2.01E-08 ND	< 1.35E-08 ND	< 1.84E-08 ND
Subtotal Non-detect			1.28E-06	8.99E-07	1.74E-06
Subtotal Detected			2.04E-05	2.74E-04	1.46E-05
Grand Total			2.17E-05	2.74E-04	1.63E-05

(a) Calculated with stack gas non-detects at the detection limit.

(b) ND - Analytical results non-detect in all four stack gas sample fractions.

(c) Pink shading - detected analytical result in one or more stack gas sample fractions

(d) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(e) Blue shading - not target analytes for EPA Method 1633.

Table A-1-5. DRE PFAS Feed Sufficiency Test Results

PFAS Category	CAS No. ^(b,c)	Acronym	PFAS Input Rate ^(a) Sufficient to Demonstrate >99.9999% DRE?			PFAS Input Rate ^(a) Sufficient to Demonstrate >99.999% DRE?			PFAS Input Rate ^(a) Sufficient to Demonstrate >99.99% DRE?		
			Run No.			Run No.			Run No.		
			1A	2A	3A	1A	2A	3A	1A	2A	3A
PFCA	375-22-4	PFBA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	2706-90-3	PFPeA	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	307-24-4	PFHxA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	375-85-9	PFHpA	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	335-67-1	PFOA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	375-95-1	PFNA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	335-76-2	PFDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	2058-94-8	PFUnA	No	No	No	No	No	No	No	No	No
	307-55-1	PFDoA	No	No	No	No	No	No	No	No	No
	72629-94-8	PFTriA	No	No	No	No	No	No	No	No	No
	376-06-7	PFTeA	No	No	No	No	No	No	No	No	No
	67905-19-5	PFHxDA	No	No	No	No	No	No	No	No	No
	16517-11-6	PFODA	No	No	No	No	No	No	No	No	No
	375-73-5	PFBS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	2706-91-4	PFPeS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PFSA	355-46-4	PFHxS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	375-92-8	PFHpS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	1763-23-1	PFOS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	68259-12-1	PFNS	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	335-77-3	PFDS	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	79780-39-5	PFDoS	No	No	No	No	No	No	Yes	Yes	Yes
	754-91-6	FOSA	No	No	No	No	No	No	No	No	No
FOSA	31506-32-8	NMeFOSA	No	No	No	No	No	No	No	No	No
	4151-50-2	NEtFOSA	No	No	No	No	No	No	No	No	No
	2355-31-9	NMeFOSAA	No	No	No	No	No	No	No	No	No
FOSAA	2991-50-6	NEtFOSAA	No	No	No	No	No	No	No	No	No
	24448-09-7	N-MeFOSE	No	No	No	No	No	No	No	No	No
	1691-99-2	N-EtFOSE	No	No	No	No	No	No	No	No	No
FTS	757124-72-4	4:2 FTS	No	No	No	No	No	No	No	No	No
	27619-97-2	6:2 FTS	No	No	No	No	No	No	No	No	No
	39108-34-4	8:2 FTS	No	No	No	No	No	No	No	No	No
	120226-60-0	10:2 FTS	No	No	No	No	No	No	No	No	No
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	919005-14-4	DONA	No	No	No	No	No	No	No	No	No
	756426-58-1	9CI-PF3ONS	No	No	No	No	No	No	No	No	No
	763051-92-9	11CI-PF3OUdS	No	No	No	No	No	No	No	No	No
	377-73-1	PFECA F	No	No	No	No	No	No	No	No	No
Additional Targets	863090-89-5	PFECA A	No	No	No	No	No	No	No	No	No
	151772-58-6	PFECA B	No	No	No	No	No	No	No	No	No
	113507-82-7	PES	No	No	No	No	No	No	No	No	No
	356-02-5	3:3 FTCA	No	No	No	No	No	No	No	No	No
	914637-49-3	5:3 FTCA	No	No	No	No	No	No	No	No	No
	812-70-4	7:3 FTCA	No	No	No	No	No	No	No	No	No
	70887-84-2	8:2 FTUCA	No	No	No	No	No	No	No	No	No
	53826-13-4	10:2 FTCA	No	No	No	No	No	No	No	No	No
	27854-31-5	8:2 FTCA	No	No	No	No	No	No	No	No	No
	53826-12-3	6:2FTCA	No	No	No	No	No	No	No	No	No
	133201-07-7	PFECHS	No	No	No	No	No	No	No	No	No
	70887-88-6	6:2 FTUCA	No	No	No	No	No	No	No	No	No
		Sum of "No" Values	38	39	38	34	34	34	33	33	33
		Sum of "Yes" Values	11	10	11	15	15	15	16	16	16

(a) Was the Total Waste Feed and Spike PFAS Input Rate Adequate to Demonstrate the Target DRE Value at the Stack Gas Analytical Detection Limit?

(b) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(c) Blue shading - not target analytes for EPA Method 1633.

Table A-1-6. Destruction and Removal Efficiency Summary - Case 1

PFAS Category	CAS No. ^(d,e)	Acronym	Run 1A ^(a,b,c) DRE (%)	Run 2A ^(a,b,c) DRE (%)	Run 3A ^(a,b,c) DRE (%)
PFCA	375-22-4	PFBA	99.999887	99.999898	99.999922
	2706-90-3	PFPeA	99.994552	99.996657	99.998918
	307-24-4	PFHxA	99.999869	99.999957	99.999958
	375-85-9	PFHpA	99.998439	99.998268	99.999230
	335-67-1	PFOA	99.999942	99.999913	99.999954
	375-95-1	PFNA	99.999893	99.997660	99.999937
	335-76-2	PFDA	99.999927	99.999923	99.999936
	2058-94-8	PFUnA			
	307-55-1	PFDoA			
	72629-94-8	PFTriA			
	376-06-7	PFTeA			
PFSA	67905-19-5	PFHxDA			
	16517-11-6	PFODA			
	375-73-5	PFBS	99.999901	99.999910	99.999883
	2706-91-4	PFPeS	99.999991	99.999994	99.999990
	355-46-4	PFHxS	99.999998	99.999999	99.999998
	375-92-8	PFHpS	99.999975	99.999979	99.999974
	1763-23-1	PFOS	99.999999	99.999999	99.999999
	68259-12-1	PFNS	99.999663	99.999782	99.999621
FOSA	335-77-3	PFDS	99.999165	99.999373	99.999150
	79780-39-5	PFDoS	99.998107	99.997866	99.997751
	754-91-6	FOSA			
FOSAA	31506-32-8	NMeFOSA			
	4151-50-2	NEtFOSA			
FOSE	2355-31-9	NMeFOSAA			
	2991-50-6	NEtFOSAA			
FTS	24448-09-7	N-MeFOSE			
	1691-99-2	N-EtFOSE			
	757124-72-4	4:2 FTS			
Fluorinated Replacement Chemicals	27619-97-2	6:2 FTS			
	39108-34-4	8:2 FTS			
	120226-60-0	10:2 FTS			
	13252-13-6	HFPO-DA	99.997319	99.951677	99.997966
Additional Targets	919005-14-4	DONA			
	756426-58-1	9CI-PF3ONS			
	763051-92-9	11CI-PF3OUdS			
	377-73-1	PFECa F			
	863090-89-5	PFECa A			
	151772-58-6	PFECa B			
	113507-82-7	PES			
	356-02-5	3:3 FTCA			
	914637-49-3	5:3 FTCA			
	812-70-4	7:3 FTCA			
	70887-84-2	8:2 FTUCA			
	53826-13-4	10:2 FTCA			
	27854-31-5	8:2 FTCA			
	53826-12-3	6:2FTCA			
	133201-07-7	PFECa S			
	70887-88-6	6:2 FTUCA			

(a) Case 1: ND = 0 for Process Streams, ND = MDL for Stack Gas

(c) DRE reported for compounds for which the mass of PFAS compound in the feed was sufficient to demonstrate >99.99% DRE as shown in Table 10-1.

(d) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(e) Blue shading - not target analytes for EPA Method 1633.

(b) Conditional Formatting Legend for DRE Values

99.99995	DE > 99.9999%
99.99950	99.999% < DE < 99.9999%
99.99500	99.99% < DE < 99.999%
99.95000	DE < 99.99%

Table A-1-7. Destruction and Removal Efficiency Summary - Case 2

PFAS Category	CAS No. ^(b,c)	Acronym	Run 1A ^(a) DRE (%)	Run 2A ^(a) DRE (%)	Run 3A ^(a) DRE (%)
PFCA	375-22-4	PFBA	99.999887	99.999898	99.999922
	2706-90-3	PFPeA	99.994552	99.996657	99.998918
	307-24-4	PFHxA	99.999869	99.999957	99.999958
	375-85-9	PFHpA	99.998440	99.998268	99.999230
	335-67-1	PFOA	99.999942	99.999913	99.999954
	375-95-1	PFNA	99.999896	99.997734	99.999939
	335-76-2	PFDA	99.999929	99.999925	99.999937
	2058-94-8	PFUnA	99.997147	99.867824	99.997392
	307-55-1	PFDoA	99.998306	99.996058	99.997957
	72629-94-8	PFTriA	99.997898	99.841050	99.997847
	376-06-7	PFTeA	99.998202	99.996563	99.998066
	67905-19-5	PFHxDA			
	16517-11-6	PFODA			
PFSA	375-73-5	PFBS	99.999901	99.999910	99.999883
	2706-91-4	PFPeS	99.999991	99.999994	99.999990
	355-46-4	PFHxS	99.999998	99.999999	99.999998
	375-92-8	PFHpS	99.999975	99.999979	99.999974
	1763-23-1	PFOS	99.999999	99.999999	99.999999
	68259-12-1	PFNS	99.999663	99.999782	99.999621
	335-77-3	PFDS	99.999165	99.999373	99.999150
	79780-39-5	PFDoS	99.998107	99.997866	99.997752
FOSA	754-91-6	FOSA	99.998145	99.998588	99.997976
	31506-32-8	NMeFOSA	99.997305	99.997956	99.996988
	4151-50-2	NEtFOSA	99.996727	99.997712	99.996657
FOSAA	2355-31-9	NMeFOSAA	99.997626	99.998368	99.997594
	2991-50-6	NEtFOSAA	99.997981	99.998536	99.997727
FOSE	24448-09-7	N-MeFOSE	99.996290	99.996577	99.992429
	1691-99-2	N-EtFOSE	99.999487	99.999600	99.999431
FTS	757124-72-4	4:2 FTS	99.999333	99.999541	99.999280
	27619-97-2	6:2 FTS	99.991434	99.992688	
	39108-34-4	8:2 FTS	99.998717	99.999176	99.998751
	120226-60-0	10:2 FTS			
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	99.997322	99.951749	99.997968
	919005-14-4	DONA	99.994224	99.995364	99.993909
	756426-58-1	9Cl-PF3ONS	99.998678	99.999085	99.998589
	763051-92-9	11Cl-PF3OUdS	99.997305	99.997865	99.996697
Additional Targets	377-73-1	PFECA F	99.995834	99.996920	99.995746
	863090-89-5	PFECA A	99.996550	99.997923	99.996767
	151772-58-6	PFECA B	99.991584	99.998666	99.998012
	113507-82-7	PES	99.997632	99.998527	99.997714
	356-02-5	3:3 FTCA	99.997676	99.998460	99.997615
	914637-49-3	5:3 FTCA	99.998675	99.998883	99.998504
	812-70-4	7:3 FTCA	99.999025	99.999314	99.998918
	70887-84-2	8:2 FTUCA			
	53826-13-4	10:2 FTCA			
	27854-31-5	8:2 FTCA			
	53826-12-3	6:2 FTCA			
	133201-07-7	PFECHS			
	70887-88-6	6:2 FTUCA			

(a) Case 1: ND = 0 for Process Streams, ND = MDL for Stack Gas

(c) DRE reported for compounds for which the mass of PFAS compound in the feed was sufficient to demonstrate >99.99% DRE as shown in Table 10-1.

(d) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(e) Blue shading - not target analytes for EPA Method 1633.

(b) Conditional Formatting Legend for DRE Values

99.99995	DE > 99.9999%
99.99950	99.999% < DE < 99.9999%
99.99500	99.99% < DE < 99.999%
99.95000	DE < 99.99%

Table A-1-8. Destruction Efficiency - Run 1A

PFAS Category	CAS No. ^(a,b)	Acronym	PFAS Inputs					Outputs			Destruction ^(c,d) Efficiency (%)
			Subtotal Waste Feeds (lb/hr)	PFAS Spikes (lb/hr)	Subtotal Chemicals (lb/hr)	Subtotal Process Water (lb/hr)	Total Input (lb/hr)	Subtotal Residuals (lb/hr)	Stack Gas (lb/hr)	Total Output (lb/hr)	
PFCA	375-22-4	PFBA	1.97E-02	5.08E-01	1.89E-07	0.00E+00	5.28E-01	1.30E-04	5.96E-07	1.30E-04	99.9753
	2706-90-3	PFPeA	2.46E-02	0.00E+00	0.00E+00	0.00E+00	2.46E-02	0.00E+00	1.34E-06	1.34E-06	99.9946
	307-24-4	PFHxA	7.28E-02	1.05E-01	0.00E+00	7.31E-08	1.78E-01	2.72E-06	2.33E-07	2.95E-06	99.9983
	375-85-9	PFHpA	2.72E-02	0.00E+00	0.00E+00	1.97E-08	2.72E-02	0.00E+00	4.25E-07	4.25E-07	99.9984
	335-67-1	PFOA	8.60E-02	9.55E-02	5.33E-08	8.11E-08	1.82E-01	4.26E-06	1.05E-07	4.37E-06	99.9976
	375-95-1	PFNA	8.15E-07	3.68E-02	0.00E+00	1.40E-08	3.68E-02	2.17E-06	3.93E-08	2.21E-06	99.9940
	335-76-2	PFDA	8.57E-10	5.21E-02	0.00E+00	0.00E+00	5.21E-02	3.67E-06	3.80E-08	3.71E-06	99.9929
	2058-94-8	PFUnA	5.94E-09	0.00E+00	0.00E+00	0.00E+00	5.94E-09	0.00E+00	2.98E-08	2.98E-08	-401.5992
	307-55-1	PFDoA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	---
	72629-94-8	PFTriA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-08	2.55E-08	---
	376-06-7	PFTeA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	3.05E-08	---
	67905-19-5	PFHxDA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-08	3.49E-08	---
	16517-11-6	PFODA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-08	2.98E-08	---
PFSA	375-73-5	PFBS	1.25E-01	9.76E-02	1.29E-08	1.87E-08	2.23E-01	2.35E-05	2.21E-07	2.37E-05	99.9894
	2706-91-4	PFPeS	1.62E-01	0.00E+00	0.00E+00	1.64E-08	1.62E-01	5.30E-06	1.40E-08	5.32E-06	99.9967
	355-46-4	PFHxS	9.60E-01	3.56E-02	0.00E+00	1.74E-07	9.96E-01	8.16E-05	1.57E-08	8.17E-05	99.9918
	375-92-8	PFHpS	1.34E-01	0.00E+00	0.00E+00	2.38E-08	1.34E-01	3.00E-06	3.38E-08	3.03E-06	99.9977
	1763-23-1	PFOS	5.45E+00	7.46E-02	1.12E-07	1.45E-06	5.52E+00	2.32E-04	4.58E-08	2.32E-04	99.9958
	68259-12-1	PFNS	4.08E-03	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	1.37E-08	1.37E-08	99.9997
	335-77-3	PFDS	3.05E-03	0.00E+00	0.00E+00	0.00E+00	3.05E-03	1.22E-06	2.55E-08	1.24E-06	99.9592
	79780-39-5	PFDoS	1.78E-03	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	3.37E-08	3.37E-08	99.9981
	754-91-6	FOSA	1.22E-09	0.00E+00	9.19E-09	0.00E+00	1.04E-08	0.00E+00	1.94E-08	1.94E-08	-85.9725
FOSA	31506-32-8	NMeFOSA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-08	2.81E-08	---
	4151-50-2	NetFOSA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-08	3.42E-08	---
FOSAA	2355-31-9	NMeFOSAA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-08	2.48E-08	---
	2991-50-6	NetFOSAA	1.63E-06	0.00E+00	0.00E+00	0.00E+00	1.63E-06	0.00E+00	2.11E-08	2.11E-08	98.7049
FOSE	24448-09-7	N-MeFOSE	8.45E-06	0.00E+00	0.00E+00	0.00E+00	8.45E-06	0.00E+00	1.94E-07	1.94E-07	97.7046
	1691-99-2	N-EtFOSE	9.89E-07	0.00E+00	0.00E+00	0.00E+00	9.89E-07	0.00E+00	2.68E-08	2.68E-08	97.2881
FTS	757124-72-4	4:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	---
	27619-97-2	6:2 FTS	2.80E-06	0.00E+00	5.49E-11	6.69E-07	3.47E-06	1.99E-06	1.79E-07	2.17E-06	37.3318
	39108-34-4	8:2 FTS	9.60E-08	0.00E+00	0.00E+00	1.45E-07	2.41E-07	0.00E+00	2.68E-08	2.68E-08	88.8651
	120226-60-0	10:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-08	3.28E-08	---
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	1.93E-07	6.32E-01	0.00E+00	0.00E+00	6.32E-01	1.09E-05	1.69E-05	2.79E-05	99.9956
	919005-14-4	DONA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-08	6.03E-08	---
	756426-58-1	9CI-PF3ONS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	---
	763051-92-9	11CI-PF3OUdS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-08	2.81E-08	---
	377-73-1	PFCEA F	4.81E-07	0.00E+00	0.00E+00	0.00E+00	4.81E-07	0.00E+00	4.36E-08	4.36E-08	90.9523
Additional Targets	863090-89-5	PFCEA A	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.90E-09	0.00E+00	3.61E-08	3.61E-08	-1797.4660
	151772-58-6	PFCEA B	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-07	1.27E-07	---
	113507-82-7	PES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-08	2.47E-08	---
	356-02-5	3:3 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-08	4.86E-08	---
	914637-49-3	5:3 FTCA	5.38E-06	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	6.92E-08	6.92E-08	98.7141
	812-70-4	7:3 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-08	5.09E-08	---
	70887-84-2	8:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-08	3.85E-08	---
	53826-13-4	10:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-08	8.55E-08	---
	27854-31-5	8:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-08	7.51E-08	---
	53826-12-3	6:2FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-08	7.87E-08	---
	133201-07-7	PFECHS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-08	3.59E-08	---
	70887-88-6	6:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-08	2.01E-08	---
	Grand Total		7.07E+00	1.64E+00	3.77E-07	2.68E-06	8.70E-06	5.02E-04	2.17E-05	5.24E-04	99.9940

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Destruction efficiency (DE) cannot be calculated for analytes for which the total input mass is zero.

(d) Destruction Efficiency (DE) = $\{1.0 - (\text{Total Output}/\text{Total Input})\} * 100\%$

Table A-1-9. Destruction Efficiency - Run 2A

PFAS Category	CAS No. ^(a,b)	Acronym	PFAS Inputs					Outputs			Destruction ^(c,d) Efficiency (%)
			Subtotal Waste Feeds (lb/hr)	PFAS Spikes (lb/hr)	Subtotal Chemicals (lb/hr)	Subtotal Process Water (lb/hr)	Total Input (lb/hr)	Subtotal Residuals (lb/hr)	Stack Gas (lb/hr)	Total Output (lb/hr)	
PFCA	375-22-4	PFBA	1.99E-02	4.44E-01	3.38E-08	0.00E+00	4.64E-01	1.42E-04	4.74E-07	1.42E-04	99.9693
	2706-90-3	PFPeA	2.50E-02	0.00E+00	0.00E+00	0.00E+00	2.50E-02	1.84E-06	8.37E-07	2.68E-06	99.9893
	307-24-4	PFHxA	6.21E-02	9.22E-02	0.00E+00	0.00E+00	1.54E-01	3.46E-06	6.61E-08	3.52E-06	99.9977
	375-85-9	PFHpA	2.61E-02	0.00E+00	0.00E+00	0.00E+00	2.61E-02	0.00E+00	4.52E-07	4.52E-07	99.9983
	335-67-1	PFOA	9.05E-02	8.35E-02	0.00E+00	0.00E+00	1.74E-01	5.47E-06	1.51E-07	5.62E-06	99.9968
	375-95-1	PFNA	2.52E-07	3.22E-02	0.00E+00	0.00E+00	3.22E-02	3.03E-06	7.53E-07	3.78E-06	99.9882
	335-76-2	PFDA	3.02E-09	4.56E-02	0.00E+00	0.00E+00	4.56E-02	2.55E-06	3.52E-08	2.58E-06	99.9943
	2058-94-8	PFUnA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-06	1.40E-06	---
	307-55-1	PFDoA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-08	4.60E-08	---
	72629-94-8	PFTriA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-06	1.95E-06	---
	376-06-7	PFTeA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-08	5.90E-08	---
	67905-19-5	PFHxDA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-08	4.48E-08	---
	16517-11-6	PFODA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-08	2.15E-08	---
PFSA	375-73-5	PFBS	1.18E-01	8.54E-02	3.57E-11	0.00E+00	2.03E-01	3.97E-05	1.82E-07	3.99E-05	99.9803
	2706-91-4	PFPeS	1.65E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-01	8.74E-06	9.61E-09	8.75E-06	99.9947
	355-46-4	PFHxS	9.89E-01	3.12E-02	0.00E+00	0.00E+00	1.02E+00	6.74E-05	1.14E-08	6.74E-05	99.9934
	375-92-8	PFHpS	1.20E-01	0.00E+00	0.00E+00	0.00E+00	1.20E-01	6.44E-06	2.52E-08	6.46E-06	99.9946
	1763-23-1	PFOS	5.01E+00	6.52E-02	4.23E-11	0.00E+00	5.08E+00	3.50E-04	4.77E-08	3.51E-04	99.9931
	68259-12-1	PFNS	4.96E-03	0.00E+00	0.00E+00	0.00E+00	4.96E-03	0.00E+00	1.08E-08	1.08E-08	99.9998
	335-77-3	PFDS	3.06E-03	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00	1.92E-08	1.92E-08	99.9994
	79780-39-5	PFDoS	1.28E-03	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	2.72E-08	2.72E-08	99.9979
	754-91-6	FOSA	0.00E+00	0.00E+00	7.75E-09	0.00E+00	7.75E-09	1.08E-06	1.49E-08	1.09E-06	-13994.9209
FOSA	31506-32-8	NMeFOSA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-08	2.16E-08	---
	4151-50-2	NetFOSA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	---
FOSAA	2355-31-9	NMeFOSAA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.73E-08	---
	2991-50-6	NetFOSAA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	---
FOSE	24448-09-7	d7-N-MeFOSE	4.66E-06	0.00E+00	0.00E+00	0.00E+00	4.66E-06	0.00E+00	1.81E-07	1.81E-07	96.1175
	1691-99-2	d9-N-EtFOSE	7.72E-07	0.00E+00	0.00E+00	0.00E+00	7.72E-07	0.00E+00	2.11E-08	2.11E-08	97.2630
FTS	757124-72-4	4:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-09	9.71E-09	---
	27619-97-2	6:2 FTS	2.94E-06	0.00E+00	4.50E-11	2.68E-08	2.97E-06	1.88E-06	1.55E-07	2.04E-06	31.4358
	39108-34-4	8:2 FTS	1.39E-08	0.00E+00	0.00E+00	0.00E+00	1.39E-08	0.00E+00	1.74E-08	1.74E-08	-24.8873
	120226-60-0	10:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-08	2.47E-08	---
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	2.69E-07	5.52E-01	0.00E+00	0.00E+00	5.52E-01	3.58E-05	2.67E-04	3.03E-04	99.9452
	919005-14-4	DONA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-08	4.90E-08	---
	756426-58-1	9CI-PF3ONS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-08	1.12E-08	---
	763051-92-9	11CI-PF3OUdS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	---
	377-73-1	PFCEA F	4.56E-07	0.00E+00	0.00E+00	0.00E+00	4.56E-07	0.00E+00	3.26E-08	3.26E-08	92.8522
Additional Targets	863090-89-5	PFCEA A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-08	2.20E-08	---
	151772-58-6	PFCEA B	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	---
	113507-82-7	PES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	---
	356-02-5	3:3 FTCA	6.73E-07	0.00E+00	0.00E+00	0.00E+00	6.73E-07	0.00E+00	3.26E-08	3.26E-08	95.1570
	914637-49-3	5:3 FTCA	4.70E-06	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	5.91E-08	5.91E-08	98.7430
	812-70-4	7:3 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-08	3.63E-08	---
	70887-84-2	8:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	---
	53826-13-4	10:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-08	6.29E-08	---
	27854-31-5	8:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-08	5.13E-08	---
	53826-12-3	6:2FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-08	5.64E-08	---
	133201-07-7	PFECHS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	---
	70887-88-6	6:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	---
	Grand Total		6.64E+00	1.43E+00	4.16E-08	2.68E-08	8.07E+00	6.70E-04	2.74E-04	9.44E-04	99.9883

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Destruction efficiency (DE) cannot be calculated for analytes for which the total input mass is zero.

(d) Destruction Efficiency (DE) = $\{1.0 - (\text{Total Output})/(\text{Total Input})\} * 100\%$

Table A-1-10. Destruction Efficiency - Run 3A

PFAS Category	CAS No. ^(a,b)	Acronym	PFAS Inputs					Outputs			Destruction ^(c,d) Efficiency (%)
			Subtotal Waste Feeds (lb/hr)	PFAS Spikes (lb/hr)	Subtotal Chemicals (lb/hr)	Subtotal Process Water (lb/hr)	Total Input (lb/hr)	Subtotal Residuals (lb/hr)	Stack Gas (lb/hr)	Total Output (lb/hr)	
PFCA	375-22-4	PFBA	1.78E-02	5.22E-01	4.63E-08	0.00E+00	5.40E-01	6.70E-05	4.20E-07	6.74E-05	99.9875
	2706-90-3	PFPeA	2.22E-02	0.00E+00	0.00E+00	0.00E+00	2.22E-02	0.00E+00	2.41E-07	2.41E-07	99.9989
	307-24-4	PFHxA	7.05E-02	1.08E-01	0.00E+00	0.00E+00	1.79E-01	1.46E-06	7.49E-08	1.53E-06	99.9991
	375-85-9	PFHpA	2.14E-02	0.00E+00	0.00E+00	0.00E+00	2.14E-02	0.00E+00	1.65E-07	1.65E-07	99.9992
	335-67-1	PFOA	7.15E-02	9.81E-02	5.09E-11	0.00E+00	1.70E-01	1.04E-06	7.77E-08	1.12E-06	99.9993
	375-95-1	PFNA	6.12E-07	3.78E-02	0.00E+00	0.00E+00	3.78E-02	0.00E+00	2.38E-08	2.38E-08	99.9999
	335-76-2	PFDA	1.50E-07	5.36E-02	0.00E+00	0.00E+00	5.36E-02	1.53E-08	3.45E-08	4.98E-08	99.9999
	2058-94-8	PFUnA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-08	2.33E-08	---
	307-55-1	PFDoA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-08	2.02E-08	---
	72629-94-8	PFTriA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-08	2.23E-08	---
	376-06-7	PFTeA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-08	2.81E-08	---
	67905-19-5	PFHxDA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-08	3.43E-08	---
PFSA	16517-11-6	PFODA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-08	2.81E-08	---
	375-73-5	PFBS	9.59E-02	1.00E-01	8.70E-11	0.00E+00	1.96E-01	6.64E-06	2.29E-07	6.87E-06	99.9965
	2706-91-4	PFPeS	1.42E-01	0.00E+00	6.20E-11	0.00E+00	1.42E-01	2.13E-06	1.37E-08	2.14E-06	99.9985
	355-46-4	PFHxS	8.65E-01	3.66E-02	5.25E-10	0.00E+00	9.02E-01	1.46E-05	1.53E-08	1.47E-05	99.9984
	375-92-8	PFHpS	1.12E-01	0.00E+00	3.68E-11	0.00E+00	1.12E-01	1.31E-06	2.92E-08	1.34E-06	99.9988
	1763-23-1	PFOS	4.46E+00	7.66E-02	1.97E-09	0.00E+00	4.53E+00	8.23E-05	5.69E-08	8.24E-05	99.9982
	68259-12-1	PFNS	3.95E-03	0.00E+00	0.00E+00	0.00E+00	3.95E-03	0.00E+00	1.49E-08	1.49E-08	99.9996
	335-77-3	PFDS	2.73E-03	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	2.32E-08	2.32E-08	99.9992
	79780-39-5	PFDoS	1.37E-03	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	3.09E-08	3.09E-08	99.9978
	754-91-6	FOSA	8.30E-09	0.00E+00	9.63E-09	0.00E+00	1.79E-08	1.25E-06	1.81E-08	1.27E-06	-6993.6646
FOSA	31506-32-8	NMeFOSA	2.65E-08	0.00E+00	0.00E+00	0.00E+00	2.65E-08	0.00E+00	2.69E-08	2.69E-08	-1.7382
	4151-50-2	NEtFOSA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-08	2.99E-08	---
FOSAA	2355-31-9	NMeFOSAA	1.18E-07	0.00E+00	0.00E+00	0.00E+00	1.18E-07	0.00E+00	2.15E-08	2.15E-08	81.7836
	2991-50-6	NEtFOSAA	1.95E-06	0.00E+00	0.00E+00	0.00E+00	1.95E-06	0.00E+00	2.04E-08	2.04E-08	98.9529
FOSE	24448-09-7	N-MeFOSE	3.80E-07	0.00E+00	0.00E+00	0.00E+00	3.80E-07	0.00E+00	3.39E-07	3.39E-07	10.8533
	1691-99-2	N-EtFOSE	2.93E-07	0.00E+00	0.00E+00	0.00E+00	2.93E-07	0.00E+00	2.55E-08	2.55E-08	91.3209
FTS	757124-72-4	4:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	---
	27619-97-2	6:2 FTS	7.39E-06	0.00E+00	7.32E-11	1.04E-08	7.40E-06	1.98E-06	2.89E-07	2.27E-06	69.3331
	39108-34-4	8:2 FTS	3.01E-07	0.00E+00	0.00E+00	0.00E+00	3.01E-07	0.00E+00	2.23E-08	2.23E-08	92.5904
	120226-60-0	10:2 FTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-08	3.56E-08	---
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	2.03E-07	6.49E-01	0.00E+00	0.00E+00	6.49E-01	1.28E-06	1.32E-05	1.45E-05	99.9978
	919005-14-4	DONA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-08	5.45E-08	---
	756426-58-1	9CI-PF3ONS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-08	1.47E-08	---
	763051-92-9	11CI-PF3OUdS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-08	2.96E-08	---
Additional Targets	377-73-1	PFCEA F	6.39E-07	0.00E+00	0.00E+00	0.00E+00	6.39E-07	0.00E+00	3.81E-08	3.81E-08	94.0378
	863090-89-5	PFCEA A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-08	2.89E-08	---
	151772-58-6	PFCEA B	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-08	2.56E-08	---
	113507-82-7	PES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-08	2.05E-08	---
	356-02-5	3:3 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-08	4.27E-08	---
	914637-49-3	5:3 FTCA	8.78E-07	0.00E+00	0.00E+00	0.00E+00	8.78E-07	0.00E+00	6.70E-08	6.70E-08	92.3704
	812-70-4	7:3 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-08	4.85E-08	---
	70887-84-2	8:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-08	3.19E-08	---
	53826-13-4	10:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-08	7.79E-08	---
	27854-31-5	8:2 FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-08	6.37E-08	---
	53826-12-3	6:2FTCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-08	7.16E-08	---
	133201-07-7	PFECHS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-08	3.19E-08	---
	70887-88-6	6:2 FTUCA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	---
	Grand Total		5.88E+00	1.68E+00	5.87E-08	1.04E-08	7.57E+00	1.81E-04	1.63E-05	1.97E-04	99.9974

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Destruction efficiency (DE) cannot be calculated for analytes for which the total input mass is zero.

(d) Destruction Efficiency (DE) = $\{1.0 - (\text{Total Output})/(\text{Total Input})\} * 100\%$

Table A-1-11. Destruction Efficiency Summary - Case 1

PFAS Category	CAS No. ^(c,d)	Acronym	Run 1A ^(a,b) Destruction Efficiency (%)	Run 2A ^(a,b) Destruction Efficiency (%)	Run 3A ^(a,b) Destruction Efficiency (%)
PFCA	375-22-4	PFBA	99.9753	99.9693	99.9875
	2706-90-3	PFPeA	99.9946	99.9893	99.9989
	307-24-4	PFHxA	99.9983	99.9977	99.9991
	375-85-9	PFHpA	99.9984	99.9983	99.9992
	335-67-1	PFOA	99.9976	99.9968	99.9993
	375-95-1	PFNA	99.9940	99.9882	99.9999
	335-76-2	PFDA	99.9929	99.9943	99.9999
	2058-94-8	PFUnA	-401.5992	---	---
PFSA	375-73-5	PFBS	99.9894	99.9803	99.9965
	2706-91-4	PFPeS	99.9967	99.9947	99.9985
	355-46-4	PFHxS	99.9918	99.9934	99.9984
	375-92-8	PFHpS	99.9977	99.9946	99.9988
	1763-23-1	PFOS	99.9958	99.9931	99.9982
	68259-12-1	PFNS	99.9997	99.9998	99.9996
	335-77-3	PFDS	99.9592	99.9994	99.9992
	79780-39-5	PFDoS	99.9981	99.9979	99.9978
FOSA	754-91-6	FOSA	-85.9725	-13994.9209	-6993.6646
	31506-32-8	NMeFOSA	---	---	-1.7382
	4151-50-2	NEtFOSA	---	---	---
FOSAA	2355-31-9	NMeFOSAA	---	---	81.7836
	2991-50-6	NEtFOSAA	98.7049	---	98.9529
FOSE	24448-09-7	N-MeFOSE	97.7046	96.1175	10.8533
	1691-99-2	N-EtFOSE	97.2881	97.2630	91.3209
FTS	757124-72-4	4:2 FTS	---	---	---
	27619-97-2	6:2 FTS	37.3318	31.4358	69.3331
	39108-34-4	8:2 FTS	88.8651	-24.8873	92.5904
	120226-60-0	10:2 FTS	---	---	---
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	99.9956	99.9452	99.9978
	919005-14-4	DONA	---	---	---
	756426-58-1	9CI-PF3ONS	---	---	---
	763051-92-9	11CI-PF3OUdS	---	---	---
Additional Targets	377-73-1	PFECA F	90.9523	92.8522	94.0378
	863090-89-5	PFECA A	-1797.4660	---	---
	151772-58-6	PFECA B	---	---	---
	113507-82-7	PES	---	---	---
	356-02-5	3:3 FTCA	---	95.1570	---
	914637-49-3	5:3 FTCA	98.7141	98.7430	92.3704
	812-70-4	7:3 FTCA	---	---	---
	70887-84-2	8:2 FTUCA	---	---	---
	53826-13-4	10:2 FTCA	---	---	---
	27854-31-5	8:2 FTCA	---	---	---
	53826-12-3	6:2FTCA	---	---	---
	133201-07-7	PFECHS	---	---	---
	70887-88-6	6:2 FTUCA	---	---	---

(a) Case 1: ND = 0 for Process Streams, ND = MDL for Stack Gas

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(b) Conditional Formatting Legend

99.995	DE > 99.99%
99.95	99.9% < DE < 99.99%
99.5	99.% < DE < 99.9%
99	DE < 99%

Table A-1-12. Destruction Efficiency Summary - Case 2

PFAS Category	CAS No. ^(a,b)	Acronym	Run 1A Destruction Efficiency (%)	Run 2A Destruction Efficiency (%)	Run 3A Destruction Efficiency (%)
PFCA	375-22-4	PFBA	99.9753	99.9692	99.9874
	2706-90-3	PFPeA	99.9905	99.9883	99.9943
	307-24-4	PFHxA	99.9982	99.9976	99.9990
	375-85-9	PFHpA	99.9948	99.9945	99.9944
	335-67-1	PFOA	99.9974	99.9966	99.9992
	375-95-1	PFNA	99.9935	99.9879	99.9973
	335-76-2	PFDA	99.9926	99.9939	99.9980
	2058-94-8	PFUnA	99.9012	99.7759	99.8819
PFSA	375-73-5	PFBS	99.9893	99.9802	99.9965
	2706-91-4	PFPeS	99.9966	99.9945	99.9983
	355-46-4	PFHxS	99.9918	99.9934	99.9983
	375-92-8	PFHpS	99.9976	99.9944	99.9986
	1763-23-1	PFOS	99.9958	99.9931	99.9982
	68259-12-1	PFNS	99.9751	99.9802	99.9735
	335-77-3	PFDS	99.9512	99.9676	99.9613
	79780-39-5	PFDoS	99.9418	99.9217	99.9225
FOSA	754-91-6	FOSA	99.8773	99.8678	99.8248
	31506-32-8	NMeFOSA	99.9013	99.9060	99.8815
	4151-50-2	NEtFOSA	99.9008	99.9058	99.8812
FOSAA	2355-31-9	NMeFOSAA	99.9017	99.9064	99.8821
	2991-50-6	NEtFOSAA	99.9022	99.9066	99.8825
FOSE	24448-09-7	N-MeFOSE	99.9006	99.9048	99.8771
	1691-99-2	N-EtFOSE	99.9036	99.9077	99.8841
FTS	757124-72-4	4:2 FTS	99.9034	99.9076	99.8841
	27619-97-2	6:2 FTS	99.8729	99.8810	99.8475
	39108-34-4	8:2 FTS	99.9028	99.9072	99.8835
	120226-60-0	10:2 FTS	---	---	---
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	99.9956	99.9452	99.9977
	919005-14-4	DONA	99.8983	99.9034	99.8785
	756426-58-1	9CI-PF3ONS	99.9160	99.9198	99.8991
	763051-92-9	11CI-PF3OUdS	99.8536	99.8602	99.8239
Additional Targets	377-73-1	PFECA F	99.9000	99.9050	99.8804
	863090-89-5	PFECA A	99.9007	99.9060	99.8814
	151772-58-6	PFECA B	99.9091	99.9196	99.8987
	113507-82-7	PES	99.9017	99.9066	99.8823
	356-02-5	3:3 FTCA	99.9018	99.9065	99.8825
	914637-49-3	5:3 FTCA	99.9029	99.9071	99.8833
	812-70-4	7:3 FTCA	99.9032	99.9074	99.8838
	70887-84-2	8:2 FTUCA	---	---	---
	53826-13-4	10:2 FTCA	---	---	---
	27854-31-5	8:2 FTCA	---	---	---
	53826-12-3	6:2FTCA	---	---	---
	133201-07-7	PFECHS	---	---	---
	70887-88-6	6:2 FTUCA	---	---	---

(a) Case 1: ND = 0 for Process Streams, ND = MDL for Stack Gas

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(b) Conditional Formatting Legend

99.995	DE > 99.99%
99.95	99.9% < DE < 99.99%
99.5	99.% < DE < 99.9%
99	DE < 99%

Table A-1-13. Process Field Samples - Run 1A

PFAS Category	CAS No. ^{(a)(b)}	Acronym	Rotary Kiln Waste Feeds																	
			A104 Waste Blend Liquid (Rotary Kiln)					A103 Drum Direct Burn Educt (Rotary Kiln)					A102 Tote Direct Burn Educt (Rotary Kiln)							
			P-1000 R1A BL UQ					P-1004 R1A DRUM EDUCT					P-1005 R1A TOTE EDUCT							
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)
PFCA	375-22-4	PFBA	44,500.00		100	F2 E		5.13E+06	<	50.00	ND	50.0		0.00E+00	3,080.00		20.0			8.43E+05
	2706-90-3	PFPeA	909.00		500	J		1.12E+05	<	25.00	ND	25.0		0.00E+00	92.80		1.00			2.54E+04
	307-24-4	PFHxA	42,500.00		50.0	F2 E		4.90E+06	<	25.00	ND	25.0		0.00E+00	108.00		1.00			2.96E+04
	375-85-9	PFHpA	<	500.00	ND	500		0.00E+00	<	25.00	ND	25.0		0.00E+00	36.00		1.00			9.85E+03
	335-67-1	PFOA	919.00		50.0			1.06E+05	<	25.00	ND	25.0		0.00E+00	55.70		1.00			1.52E+04
	375-95-1	PFNA	84.10		50.0	J		9.69E+03	<	25.00	ND	25.0		0.00E+00	9.34		1.00			2.56E+03
	335-76-2	PFDA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	1.42		1.00	J		3.89E+02
	2058-94-8	PFluA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	1.01		1.00	J		2.76E+02
	307-55-1	PFDoA	<	55.00	ND	55.0		0.00E+00	<	27.50	ND	27.5		0.00E+00	<	1.10	ND	1.10		0.00E+00
	72629-94-8	PFTriA	<	58.00	ND	58.0		0.00E+00	<	29.00	ND	29.0		0.00E+00	<	1.16	ND	1.16		0.00E+00
	376-06-7	PFTeA	<	81.00	ND	81.0		0.00E+00	<	40.50	ND	40.5		0.00E+00	<	1.62	ND	1.62		0.00E+00
	67905-19-5	PFHxDA																		
	16517-11-6	PFODA																		
PFSA	375-73-5	PFBS	3,760.00		50.0	F2 F1		4.33E+05	<	25.00	ND	25.0		0.00E+00	1,350.00		10.0			3.69E+05
	2706-91-4	PFPeS	628.00		50.0			7.24E+04	<	25.00	ND	25.0		0.00E+00	46.40		1.00			1.27E+04
	355-46-4	PFHxS	1,770.00		50.0	F2 F1		2.04E+05	<	25.00	ND	25.0		0.00E+00	185.00		1.00			5.06E+04
	375-92-8	PFHpS	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	22.00		1.00			6.02E+03
	1763-23-1	PFOS	14,800.00		50.0	F2 F1		1.71E+06	<	25.00	ND	25.0		0.00E+00	927.00		10.0			2.54E+05
	68259-12-1	PFNS	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	335-77-3	PFDS	457.00		50.0			5.27E+04	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	79780-39-5	PFDoS	<	53.00	ND	53.0		0.00E+00	<	26.50	ND	26.5		0.00E+00	<	1.06	ND	1.06		0.00E+00
FOSA	754-91-6	FOSA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	2.03		1.00	J		5.55E+02
	31506-32-8	NMeFOSA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	4151-50-2	NeFOSA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
FOSAA	2355-31-9	NMeFOSAA	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	2991-50-6	NeFOSAA	808.00		50.0			9.31E+04	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
FOSE	24448-09-7	N-MeFOSE	4,190.00		250	F2		4.83E+05	<	125.00	ND	125		0.00E+00	<	5.00	ND	5.00		0.00E+00
	1691-99-2	N-EtFOSE	490.00		250	J		5.65E+04	<	125.00	ND	125		0.00E+00	<	5.00	ND	5.00		0.00E+00
FTS	757324-72-4	4:2 FTS	<	100.00	ND	100		0.00E+00	<	50.00	ND	50.0		0.00E+00	<	2.00	ND	2.00		0.00E+00
	27619-97-2	6:2 FTS	<	1,000.00	ND	1000		0.00E+00	<	50.00	ND	50.0		0.00E+00	451.00		2.00			1.23E+05
	39108-34-4	8:2 FTS	<	100.00	ND	100		0.00E+00	<	50.00	ND	50.0		0.00E+00	26.50		2.00			7.25E+03
	120226-60-0	10:2 FTS																		
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	<	390.00	ND	390		0.00E+00	<	19.50	ND	19.5		0.00E+00	320.00		0.780			8.76E+04
	919005-14-4	DONA	<	50.00	ND	50.0	F1	0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	756426-58-1	9CI-PF3ONS	<	58.00	ND	58.0		0.00E+00	<	29.00	ND	29.0		0.00E+00	<	1.16	ND	1.16		0.00E+00
	763051-92-9	11CI-PF3Ouds	<	50.00	ND	50.0		0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	377-73-1	PFECA F	<	500.00	ND	500		0.00E+00	<	25.00	ND	25.0		0.00E+00	105.00		1.00			2.87E+04
Additional Targets	863090-89-5	PFECA A	<	500.00	ND	500		0.00E+00	<	25.00	ND	25.0		0.00E+00	3.15		1.00	J		8.62E+02
	151772-58-6	PFECA B	<	72.00	ND	72.0	F2 F1	0.00E+00	<	36.00	ND	36.0		0.00E+00	<	1.44	ND	1.44		0.00E+00
	113507-82-7	PES	<	50.00	ND	50.0	F2 F1	0.00E+00	<	25.00	ND	25.0		0.00E+00	<	1.00	ND	1.00		0.00E+00
	356-02-5	3:3 FTCA	<	1,000.00	ND	1000		0.00E+00	<	50.00	ND	50.0		0.00E+00	<	24.00	ND	24.0	G	0.00E+00
	914637-49-3	5:3 FTCA	505.00		250	J F1		5.82E+04	<	125.00	ND	125		0.00E+00	<	5.00	ND	5.00		0.00E+00
	812-70-4	7:3 FTCA	<	250.00	ND	250	F2 F1	0.00E+00	<	125.00	ND	125		0.00E+00	<	5.00	ND	5.00		0.00E+00
	70887-84-2	8:2 FTUCA																		
	53826-13-4	10:2 FTCA																		
	27854-31-5	8:2 FTCA																		
	53826-12-3	6:2 FTCA																		
	133201-07-7	PFECHS																		
	70887-88-6	6:2 FTUCA																		
Subtotal: Non-detect			5,267.00					0.00E+00	1,558.00					0.00E+00	62.54					0.00E+00
Subtotal: Detected			116,380.10					1.34E+07	0.00					0.00E+00	6,822.35					1.87E+06
Grand Total			121,647.10					1.34E+07	1,558.00					0.00E+00	6,884.89					1.87E+06
Material Density (lb/gal)								7.09						7.59						8.42
Material Flowrate (lb/hr)								216.19						568.95						609.77

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-13. Process Field Samples - Run 1A

PFAS Category	CAS No. ^{(b)(k)}	Acronym	Afterburner Waste Feeds																	
			A-106B Blend Liquid (South ABC)						A-415 Corrosive Waste Feed (South ABC)						A105A Aqueous Liquid (North ABC)					
			P-1000 R1A BL LIQ						P-1008 R1A CW						P-1003 R1A AQU LIQ					
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)
PFCA	375-22-4	PFBA	44,500.00		100	F2 E		1.82E+07	195.00		10.0			5.80E+04	3,740.00		100			2.81E+06
	2706-90-3	PFHxA	969.00		500	J		3.96E+05	69.50		5.00			2.07E+04	50.00	ND	50.0			0.00E+00
	307-24-4	PFHxA	42,500.00		500	F2 E		1.74E+07	57.80		5.00			1.72E+04	632.00		90.0			4.74E+05
	375-85-9	PFHpA	< 500.00	ND	500			0.00E+00	19.50		5.00	J		5.80E+03	122.00		50.0	J		9.16E+04
	335-67-1	PFOA	919.00		50.0			3.76E+05	109.00		5.00			3.24E+04	281.00		50.0			2.11E+05
	375-95-1	PFNA	84.10		50.0	J		3.44E+04	680.00		5.00			2.02E+05	63.60		50.0	J		4.77E+04
	335-76-2	PFDA	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	2058-94-8	PFUnA	< 50.00	ND	50.0			0.00E+00	8.13		5.00	J		2.42E+03	< 50.00	ND	50.0			0.00E+00
	307-55-1	PFDoA	< 55.00	ND	55.0			0.00E+00	< 5.50	ND	5.50			0.00E+00	< 55.00	ND	55.0			0.00E+00
	72629-94-8	PFTriA	< 58.00	ND	58.0			0.00E+00	< 5.80	ND	5.80			0.00E+00	< 58.00	ND	58.0			0.00E+00
	376-06-7	PFTeA	< 81.00	ND	81.0			0.00E+00	< 8.10	ND	8.10			0.00E+00	< 81.00	ND	81.0			0.00E+00
	67905-19-5	PFHxDA																		
	16517-11-6	PFODA																		
PFSA	375-73-5	PFBS	3,760.00		50.0	F2 F1		1.54E+06	7.73		5.00	J		2.30E+03	2,960.00		50.0			2.22E+06
	2706-91-4	PFPeS	628.00		50.0			2.57E+05	< 5.00	ND	5.00			0.00E+00	249.00		50.0			1.87E+05
	355-46-4	PFHxS	1,770.00		50.0	F2 F1		7.24E+05	14.30		5.00	J		4.25E+03	327.00		50.0			2.45E+05
	375-92-8	PFHpS	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	1763-73-1	PFDS	14,800.00		50.0	F2 F1		6.05E+06	45.20		5.00	I		1.34E+04	508.00		50.0			3.81E+05
	68259-12-1	PFNS	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	335-77-3	PFDS	457.00		50.0			1.87E+05	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	79780-39-5	PFDoS	< 53.00	ND	53.0			0.00E+00	< 5.30	ND	5.30			0.00E+00	< 53.00	ND	53.0			0.00E+00
	754-91-6	FOSA	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	31506-32-8	NMeFOSA	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
FOSA	4151-50-2	NEtFOSA	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	2355-31-9	NMeFOSAA	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
FOSAA	2991-50-6	NEtFOSAA	808.00		50.0			3.30E+05	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	24448-09-7	N-MeFOSE	4,190.00		250	F2		1.71E+06	< 25.00	ND	25.0			0.00E+00	< 250.00	ND	250			0.00E+00
FOSE	1691-99-2	N-EtFOSE	490.00		250	J		2.00E+05	< 25.00	ND	25.0			0.00E+00	< 250.00	ND	250			0.00E+00
	797126-72-4	8-2 FTS	< 100.00	ND	100			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 100.00	ND	100			0.00E+00
FTS	27619-97-2	6-2 FTS	< 1,000.00	ND	1000			0.00E+00	324.00		10.0			9.63E+04	484.00		100			3.63E+05
	39108-34-4	8-2 FTS	< 100.00	ND	100			0.00E+00	122.00		10.0			3.63E+04	< 100.00	ND	100			0.00E+00
Fluorinated Replacement Chemicals	120226-60-0	10-2 FTS																		
	13252-13-6	HEPO-DA	< 390.00	ND	390			0.00E+00	< 3.90	ND	3.90			0.00E+00	< 39.00	ND	39.0			0.00E+00
Additional Targets	919005-14-4	DONA	< 50.00	ND	50.0	F1		0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	756426-58-1	9CI-PF3QNS	< 58.00	ND	58.0			0.00E+00	< 5.80	ND	5.80			0.00E+00	< 58.00	ND	58.0			0.00E+00
	763051-92-9	11CI-PF3QUDs	< 50.00	ND	50.0			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	377-73-1	PFECA F	< 500.00	ND	500			0.00E+00	37.50		5.00			1.12E+04	< 50.00	ND	50.0			0.00E+00
	863090-89-5	PFECA A	< 500.00	ND	500			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00
	151772-58-6	PFECA B	< 72.00	ND	72.0	F2 F1		0.00E+00	< 7.20	ND	7.20			0.00E+00	< 72.00	ND	72.0			0.00E+00
	113507-82-7	PES	< 50.00	ND	50.0	F2 F1		0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0	F1		0.00E+00
	356-02-5	3-3 FTCA	< 1,000.00	ND	1000			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 100.00	ND	100			0.00E+00
	914637-49-3	5-3 FTCA	505.00		250	J F1		2.06E+05	< 25.00	ND	25.0			0.00E+00	1,430.00		250	F1		1.07E+06
	812-70-4	7-3 FTCA	< 250.00	ND	250	F2 F1		0.00E+00	< 25.00	ND	25.0			0.00E+00	< 250.00	ND	250			0.00E+00
Additional Targets	70887-84-2	8-2 FTUCA																		
	53826-13-4	10-2 FTCA																		
	27854-31-5	8-2 FTCA																		
	53826-12-3	6-2 FTCA																		
	133201-07-7	PFECHS																		
	70887-88-6	6-2 FTUCA																		
Subtotal: Non-detect			5,267.00					0.00E+00	231.60					0.00E+00	2,266.00					0.00E+00
Subtotal: Detected			116,380.10					4.76E+07	1,689.66					5.02E+05	10,796.60					8.10E+06
Grand Total			121,647.10					4.76E+07	1,921.26					5.02E+05	13,062.60					8.10E+06
Material Density (lb/gal)								7.09						8.51						8.26
Material Flowrate (lb/hr)								766.74						669.21						1,639.71

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-13. Process Field Samples - Run 1A

PFAS Category	CAS No. ^{(a)(b)}	Acronym	Afterburner Waste Feeds																	Subtotal Waste Feeds	
			A105B Aqueous Liquid (South ABC)						A106A UMO (North ABC)						A106B UMO (South ABC)						
			P-1003 R1A AQU LIQ						P-1002 R1A UMO						P-1002 R1A UMO						
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)
PFCA	375-22-4	PFBA	3,740.00		100			2.37E+06	4,710.00		100			9.30E+05	4,710.00		100			1.07E+06	1.97E-02
	2706-90-3	PFPeA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	2.46E-02
	307-24-4	PFHxA	632.00		50.0			4.01E+05	50.00	ND	50.0	F1		0.00E+00	50.00	ND	50.0	F1		0.00E+00	7.28E-02
	375-85-9	PFHpA	122.00		50.0	J		7.73E+04	500.00	ND	500			0.00E+00	500.00	ND	500			0.00E+00	2.72E-02
	335-67-1	PFDA	281.00		50.0			1.78E+05	121.00		50.0	J		2.39E+04	121.00		50.0	J		2.75E+04	8.60E-02
	375-95-1	PFNA	63.60		50.0	J		4.03E+04	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	8.15E-07
	335-76-2	PFDA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	8.57E-10
	2058-94-8	PFUnA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	5.94E-09
	307-55-1	PFDoA	55.00	ND	55.0			0.00E+00	55.00	ND	55.0			0.00E+00	55.00	ND	55.0			0.00E+00	0.00E+00
	72629-94-8	PFTriA	58.00	ND	58.0			0.00E+00	58.00	ND	58.0			0.00E+00	58.00	ND	58.0			0.00E+00	0.00E+00
	376-06-7	PFTeA	81.00	ND	81.0			0.00E+00	81.00	ND	81.0			0.00E+00	81.00	ND	81.0			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																			
	16517-11-6	PFODA																			
PFSA	375-73-5	PFBS	2,960.00		50.0			1.88E+06	152.00		50.0	J		3.00E+04	152.00		50.0	J		3.46E+04	1.25E-01
	2706-91-4	PFPeS	249.00		50.0			1.58E+05	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	1.62E-01
	355-46-4	PFHxS	327.00		50.0			2.07E+05	65.60		50.0	J1		1.30E+04	65.60		50.0	J1		1.49E+04	9.60E-01
	375-92-8	PFHpS	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	1.34E-01
	1763-23-1	PFOS	508.00		50.0			3.22E+05	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	5.45E+00
	68259-12-1	PFNS	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	4.08E-03
	335-77-3	PFDS	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	3.05E-03
	79780-39-5	PFDoS	53.00	ND	53.0			0.00E+00	53.00	ND	53.0			0.00E+00	53.00	ND	53.0			0.00E+00	1.78E-03
	754-91-6	FOSA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	1.22E-09
	31506-32-8	NMeFOSA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	0.00E+00
FOSA	4151-50-2	NeFOSA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	0.00E+00
FOSAA	2991-50-6	NeFOSAA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	1.63E-06
	24448-09-7	N-MeFOSE	250.00	ND	250			0.00E+00	250.00	ND	250			0.00E+00	250.00	ND	250			0.00E+00	8.45E-06
FOSE	1691-99-2	N-EtFOSE	250.00	ND	250			0.00E+00	250.00	ND	250			0.00E+00	250.00	ND	250			0.00E+00	9.89E-07
	757324-72-4	4:2 FTS	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	484.00		100			3.07E+05	794.00		100			1.57E+05	794.00		100			1.81E+05	2.80E-05
	39108-34-4	8:2 FTS	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	9.60E-08
	120226-60-0	10:2 FTS																			
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	39.00	ND	39.0			0.00E+00	390.00	ND	390			0.00E+00	390.00	ND	390			0.00E+00	1.93E-07
	919005-14-4	DONA	50.00	ND	50.0			0.00E+00	50.00	ND	50.0	F1		0.00E+00	50.00	ND	50.0	F1		0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	58.00	ND	58.0			0.00E+00	58.00	ND	58.0			0.00E+00	58.00	ND	58.0			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUdS	50.00	ND	50.0			0.00E+00	50.00	ND	50.0	F1		0.00E+00	50.00	ND	50.0	F1		0.00E+00	0.00E+00
	377-73-1	PFCEA F	50.00	ND	50.0			0.00E+00	374.00		50.0			7.39E+04	374.00		50.0			8.51E+04	4.81E-07
Additional Targets	863090-89-5	PFCEA A	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	50.00	ND	50.0			0.00E+00	1.90E-09
	151772-58-6	PFCEA B	72.00	ND	72.0			0.00E+00	72.00	ND	72.0	F1		0.00E+00	72.00	ND	72.0	F1		0.00E+00	0.00E+00
	113507-82-7	PES	50.00	ND	50.0	F1		0.00E+00	50.00	ND	50.0	F1		0.00E+00	50.00	ND	50.0	F1		0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	100.00	ND	100			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	1,430.00		250	F1		9.07E+05	250.00	ND	250	F1		0.00E+00	250.00	ND	250	F1		0.00E+00	5.38E-06
	812-70-4	7:3 FTCA	250.00	ND	250			0.00E+00	250.00	ND	250	F1		0.00E+00	250.00	ND	250	F1		0.00E+00	0.00E+00
	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTCA																			
	27854-31-5	8:2 FTCA																			
	53826-12-3	6:2 FTCA																			
	133201-07-7	PFECHS																			
	70887-88-6	6:2 FTUCA																			
Subtotal: Non-detected			2,266.00					0.00E+00	3,517.00					0.00E+00	3,517.00					0.00E+00	
Subtotal: Detected			10,796.60					6,84E+06	6,216.60					1.23E+06	6,216.60					1.42E+06	
Grand Total			13,062.60					6.84E+06	9,733.60					1.23E+06	9,733.60					1.42E+06	7.07E+00
Material Density (lb/gal)								8.26						7.67						7.67	
Material Flowrate (lb/hr)								1,384.75						401.01						462.09	

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-13. Process Field Samples - Run 1A

Table A-1-13. Process Field Samples - run 1A			PFAS Spikes		Total Waste Feeds, Fuels, Spikes
PFAS Category	CAS No. ^{(a)(b)}	Acronym	PFAS Spikes (Rotary Kiln)	Contribution from Spikes	
			Flow (lb/hr)	(% of Total)	Flow (lb/hr)
PFCA	375-22-4	PFBA	5.08E-01	96.260	5.28E-01
	2706-90-3	PFPeA		0.000	2.46E-02
	307-24-4	PFHxA	1.05E-01	99.169	1.78E-01
	375-85-9	PFHpA		0.000	2.72E-02
	335-67-1	PFOA	9.55E-02	52.602	1.82E-01
	375-95-1	PFNA	3.68E-02	99.998	3.68E-02
	335-76-2	PFDA	5.21E-02	100.000	5.21E-02
	2058-94-8	PFUnA		0.000	5.94E-09
	307-55-1	PFDoA		---	0.00E+00
	72629-94-8	PFTriA		---	0.00E+00
	376-06-7	PFTeA		---	0.00E+00
	67905-19-5	PFHxDA			
	16517-11-6	PFODA			
PFSA	375-73-5	PFBS	9.76E-02	43.798	2.23E-01
	2706-91-4	PFPeS		0.000	1.62E-01
	355-46-4	PFHxS	3.56E-02	3.578	9.96E-01
	375-92-8	PFHpS		0.000	1.34E-01
	1763-23-1	PFOS	7.46E-02	1.351	5.52E+00
	68259-12-1	PFNS		0.000	4.08E-03
	335-77-3	PFDS		0.000	3.05E-03
FOSA	79780-39-5	PFDoS		0.000	1.78E-03
	754-91-6	FOSA		0.000	1.22E-09
FOSAA	31506-32-8	NMeFOSA		---	0.00E+00
	4151-50-2	NEtFOSA		---	0.00E+00
FOSE	2355-31-9	NMeFOSAA		---	0.00E+00
	2991-50-6	NEtFOSAA		0.000	1.63E-06
FOSE	24448-09-7	N-MeFOSE		0.000	8.45E-06
	1691-99-2	N-EtFOSE		0.000	9.89E-07
FTS	757124-72-4	4:2 FTS		---	0.00E+00
	27619-97-2	6:2 FTS		0.000	2.80E-06
	39108-34-4	8:2 FTS		0.000	9.60E-08
	120226-60-0	10:2 FTS			
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	6.32E-01	100.000	6.32E-01
	919005-14-4	DONA		---	0.00E+00
	756426-58-1	9CI-PF3ONS		---	0.00E+00
Additional Targets	763051-92-9	11CI-PF3OUdS		---	0.00E+00
	377-73-1	PFECA F		0.000	4.81E-07
	863090-89-5	PFECA A		0.000	1.90E-09
	151772-58-6	PFECA B		---	0.00E+00
	113507-82-7	PES		---	0.00E+00
	356-02-5	3:3 FTCA		---	0.00E+00
	914637-49-3	5:3 FTCA		0.000	5.38E-06
	812-70-4	7:3 FTCA		---	0.00E+00
	70887-84-2	8:2 FTUCA			
	53826-13-4	10:2 FTCA			
	27854-31-5	8:2 FTCA			
	53826-12-3	6:2FTCA			
	133201-07-7	PFECHS			
	70887-88-6	6:2 FTUCA			
	Subtotal: Non-detect				
	Subtotal: Detected				
Grand Total			1.64E+00		8.70E+00
Material Density (lb/gal)					
Material Flowrate (lb/hr)					

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-13. Process Field Samples - Run 1A

PFAS Category	CAS No. (a)(b)	Acronym	Chemicals																Subtotal Chemicals		
			Powdered Activated Carbon						Soda Ash						TMT-15						
			P-1011 R1A PAC						P-1010 R1A SODA ASH SOL						P-1009 R1A TMT						
			Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)
PFCA	375-22-4	PFBA	6.34		0.400			8.57E+04	< 10.00	ND	10.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	1.89E-07
	2706-90-3	PFPA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-24-4	PFHxA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-85-9	PFHpA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-67-1	PFOA	1.79		0.248			2.42E+04	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	5.33E-08
	375-95-1	PFNA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-76-2	PFDA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2058-94-8	PFUnA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 0.20	ND	0.200			0.00E+00	< 5.50	ND	5.50			0.00E+00	< 5.50	ND	5.50			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 0.20	ND	0.200			0.00E+00	< 5.80	ND	5.80			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 0.23	ND	0.232			0.00E+00	< 8.10	ND	8.10			0.00E+00	< 8.10	ND	8.10			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																		0.00E+00	
	16517-11-6	PFODA																		0.00E+00	
PFSA	375-73-5	PFBS	0.43		0.200	J		5.83E+03	< 5.00	ND	5.00			0.00E+00	8.45		5.00	J		1.76E+01	1.29E-08
	2706-91-4	PFPeS	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	355-46-4	PFHnS	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-92-8	PFHnS	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	1763-23-1	PFOS	< 0.20	ND	0.200			0.00E+00	5.79		5.00	J		5.09E+04	11.00		5.00	J		1.64E+01	1.12E-07
	68259-12-1	PFNS	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-77-3	PFDS	< 0.20	ND	0.200	*1		0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	79780-39-5	PFDoS	< 0.20	ND	0.200			0.00E+00	< 5.30	ND	5.30			0.00E+00	< 5.30	ND	5.30			0.00E+00	0.00E+00
	754-91-6	FOSA	0.31		0.252	J		4.15E+03	< 5.00	ND	5.00			0.00E+00	12.70		5.00	J		1.90E+01	9.19E-09
	31506-32-8	NMeFOSA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSA	4151-50-2	NEtFOSA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSAA	2991-50-6	NEtFOSAA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	24448-09-7	N-MeFOSE	< 1.00	ND	1.00			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
FOSE	1691-99-2	N-EtFOSE	< 1.00	ND	1.00			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	757124-72-4	4:2 FTS	< 0.40	ND	0.400			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	< 0.40	ND	0.400			0.00E+00	< 10.00	ND	10.0			0.00E+00	16.70		10.0	J		2.49E+01	5.49E-11
	39108-34-4	8:2 FTS	< 0.40	ND	0.400			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	120226-60-0	10:2 FTS																		0.00E+00	
	13252-13-6	HFPO-DA	< 0.20	ND	0.200			0.00E+00	< 3.90	ND	3.90			0.00E+00	< 3.90	ND	3.90			0.00E+00	0.00E+00
Fluorinated Replacement Chemicals	919005-14-4	DONA	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.20	ND	0.200			0.00E+00	< 5.80	ND	5.80			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUDs	< 0.30	ND	0.300			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	377-73-1	PFECA F	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	863090-89-5	PFECA A	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
Additional Targets	151772-58-6	PFECA B	< 0.25	ND	0.248			0.00E+00	< 7.20	ND	7.20			0.00E+00	< 7.20	ND	7.20			0.00E+00	0.00E+00
	113507-82-7	PES	< 0.20	ND	0.200			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	< 0.40	ND	0.400			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	812-70-4	7:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTCA																			
	27854-31-5	8:2 FTCA																			
	53826-12-3	6:2 FTCA																			
	133201-07-7	PFECHS																			
	70887-88-6	6:2 FTUCA																			
Subtotal: Non-detect			11.38					0.00E+00	306.60					0.00E+00	286.60					0.00E+00	
Subtotal: Detected			8.87					1.20E+05	5.79					5.09E+04	48.85					7.29E+01	
Grand Total			20.25					1.20E+05	312.39					5.09E+04	335.45					7.29E+01	3.77E-07
Material Density (lb/gal)			NA						9.01						9.34						
Material Flowrate (lb/hr)			29.80						20,944.44						3.69						

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-13. Process Field Samples - Run 1A

			Internal Recycle							
PFAS Category	CAS No. ^{(a)(b)}	Acronym	Brine							
			P-1014 R1A BRINE							
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)		
PFCA	375-22-4	PFBA	<	0.94	ND	0.941			0.00E+00	
	2706-90-3	PFPeA		2.57		0.470			7.46E+04	
	307-24-4	PFHxA		1.86		0.470	J		5.40E+04	
	375-85-9	PFHpA	<	0.47	ND	0.470			0.00E+00	
	335-67-1	PFOA	<	0.47	ND	0.470			0.00E+00	
	375-95-1	PFNA	<	0.47	ND	0.470			0.00E+00	
	335-76-2	PFDA	<	0.47	ND	0.470			0.00E+00	
	2058-94-8	PFLnA	<	0.47	ND	0.470			0.00E+00	
	307-55-1	PFDoA	<	0.52	ND	0.517			0.00E+00	
	72629-94-8	PFTriA	<	0.55	ND	0.546			0.00E+00	
	376-06-7	PFTeA	<	0.76	ND	0.762			0.00E+00	
	67905-19-5	PFHxDA								
	16517-11-6	PFODA								
PFSA	375-73-5	PFBS	<	0.47	ND	0.470			0.00E+00	
	2706-91-4	PFPeS	<	0.47	ND	0.470			0.00E+00	
	355-46-4	PFHxS	<	0.47	ND	0.470			0.00E+00	
	375-92-8	PFHpS	<	0.47	ND	0.470			0.00E+00	
	1763-23-1	PFOS		0.85		0.470	J		2.46E+04	
	68259-12-1	PFNS	<	0.47	ND	0.470			0.00E+00	
	335-77-3	PFDS	<	0.47	ND	0.470			0.00E+00	
	79780-39-5	PFDoS	<	0.50	ND	0.498			0.00E+00	
FOSA	754-91-6	FOSA	<	0.47	ND	0.470			0.00E+00	
	31506-32-8	NMeFOSA	<	0.47	ND	0.470			0.00E+00	
FOSAA	4151-50-2	NeFOSA	<	0.47	ND	0.470			0.00E+00	
	2355-31-9	NMeFOSAA	<	0.47	ND	0.470			0.00E+00	
FOSE	2991-50-6	NeFOSAA	<	0.47	ND	0.470			0.00E+00	
	24448-09-7	N-MeFOSE	<	2.35	ND	2.35			0.00E+00	
FTS	1691-99-2	N-EtFOSE	<	2.35	ND	2.35			0.00E+00	
	757124-72-4	4:2 FTS	<	0.94	ND	0.941			0.00E+00	
	27619-97-2	6:2 FTS		1.74		0.941	J		5.05E+04	
	39108-34-4	8:2 FTS	<	0.94	ND	0.941			0.00E+00	
Fluorinated Replacement Chemicals	120226-60-0	10:2 FTS								
	13252-13-6	HFPO-DA	<	0.37	ND	0.367			0.00E+00	
	919005-14-4	DONA	<	0.47	ND	0.470			0.00E+00	
	756426-58-1	9CI-PF3ONS	<	0.55	ND	0.546	F1		0.00E+00	
	763051-92-9	11CI-PF3Ouds	<	0.47	ND	0.470			0.00E+00	
	377-73-1	PFECA F	<	0.47	ND	0.470			0.00E+00	
	863090-89-5	PFECA A	<	0.47	ND	0.470	F1		0.00E+00	
	151772-58-6	PFECA B	<	0.68	ND	0.677			0.00E+00	
	113507-82-7	PES	<	0.47	ND	0.470			0.00E+00	
	356-02-5	3:3 FTCA	<	0.94	ND	0.941			0.00E+00	
	914637-49-3	5:3 FTCA	<	2.35	ND	2.35			0.00E+00	
	812-70-4	7:3 FTCA	<	2.35	ND	2.35			0.00E+00	
	Additional Targets	70887-84-2	8:2 FTUCA							
		53826-13-4	10:2 FTCA							
		27854-31-5	8:2 FTCA							
53826-12-3		6:2FTCA								
133201-07-7		PFECHS								
70887-88-6		6:2 FTUCA								
Subtotal: Non-detect		26.95						0.00E+00		
Subtotal: Detected		7.02						2.04E+05		
Grand Total		33.96						2.04E+05		
Material Density (lb/gal)			8.62							
Material Flowrate (lb/hr)			66,228.94							

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-14. Process Field Samples - Run 2A

Table A-1-14. Process Field Samples - run 2A			PFAS Spikes		Total Waste Feeds, Fuels, Spikes
PFAS Category	CAS No. ^{(a)(b)}	Acronym	PFAS Spikes (Rotary Kiln)	Contribution from Spikes	
			Flow (lb/hr)	(% of Total)	Flow (lb/hr)
PFCA	375-22-4	PFBA	4.44E-01	95.710	4.64E-01
	2706-90-3	PFPeA		0.000	2.50E-02
	307-24-4	PFHxA	9.22E-02	59.761	1.54E-01
	375-85-9	PFHpA		0.000	2.61E-02
	335-67-1	PFOA	8.35E-02	47.989	1.74E-01
	375-95-1	PFNA	3.22E-02	99.999	3.22E-02
	335-76-2	PFDA	4.56E-02	100.000	4.56E-02
	2058-94-8	PFUnA		---	0.00E+00
	307-55-1	PFDoA		---	0.00E+00
	72629-94-8	PFTriA		---	0.00E+00
	376-06-7	PFTeA		---	0.00E+00
	67905-19-5	PFHxDA			
	16517-11-6	PFODA			
PFSA	375-73-5	PFBS	8.54E-02	42.074	2.03E-01
	2706-91-4	PFPeS		0.000	1.65E-01
	355-46-4	PFHxS	3.12E-02	3.054	1.02E+00
	375-92-8	PFHpS		0.000	1.20E-01
	1763-23-1	PFOS	6.52E-02	1.284	5.08E+00
	68259-12-1	PFNS		0.000	4.96E-03
	335-77-3	PFDS		0.000	3.06E-03
FOSA	79780-39-5	PFDoS		0.000	1.28E-03
	754-91-6	FOSA		---	0.00E+00
FOSAA	31506-32-8	NMeFOSA		---	0.00E+00
	4151-50-2	NEtFOSA		---	0.00E+00
FOSE	2355-31-9	NMeFOSAA		---	0.00E+00
	2991-50-6	NEtFOSAA		---	0.00E+00
FTS	24448-09-7	N-MeFOSE		0.000	4.66E-06
	1691-99-2	N-EtFOSE		0.000	7.72E-07
	757124-72-4	4:2 FTS		---	0.00E+00
	27619-97-2	6:2 FTS		0.000	2.94E-06
	39108-34-4	8:2 FTS		0.000	1.39E-08
Additional Targets	120226-60-0	10:2 FTS			
	13252-13-6	HFPO-DA	5.52E-01	100.000	5.52E-01
	919005-14-4	DONA		---	0.00E+00
	756426-58-1	9CI-PF3ONS		---	0.00E+00
	763051-92-9	11CI-PF3OUdS		---	0.00E+00
	377-73-1	PFECA F		0.000	4.56E-07
	863090-89-5	PFECA A		---	0.00E+00
	151772-58-6	PFECA B		---	0.00E+00
	113507-82-7	PES		---	0.00E+00
	356-02-5	3:3 FTCA		0.000	6.73E-07
	914637-49-3	5:3 FTCA		0.000	4.70E-06
	812-70-4	7:3 FTCA		---	0.00E+00
	70887-84-2	8:2 FTUCA			
	53826-13-4	10:2 FTCA			
	27854-31-5	8:2 FTCA			
53826-12-3	6:2FTCA				
133201-07-7	PFECHS				
70887-88-6	6:2 FTUCA				
	Subtotal: Non-detect				
	Subtotal: Detected				
	Grand Total		1.43E+00	8.07E+00	
Material Density (lb/gal)					
Material Flowrate (lb/hr)					

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-14. Process Field Samples - Run 2A

			Chemicals																	Subtotal Chemicals	
PFAS Category	CAS No. ^{(a)(b)}	Acronym	Powdered Activated Carbon						Soda Ash						TMT-15						
			P-1028 R2A PAC						P-1027 R2A SODA ASH SOL						P-1026 R2A TMT						
			Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)
PFCA	375-22-4	PFBA	1.12		0.400	J		1.52E+04	< 25.00	ND	25.0			0.00E+00	101.00		10.0	G		1.57E+02	3.38E-08
	2706-90-3	PFPeA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-24-4	PFHxA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-85-9	PFHpA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-67-1	PFOA	< 0.25	ND	0.248			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-95-1	PFNA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-76-2	PFDA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2058-94-8	PFUnA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 0.20	ND	0.200			0.00E+00	< 13.80	ND	13.8			0.00E+00	< 5.50	ND	5.50			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 0.20	ND	0.200			0.00E+00	< 14.50	ND	14.5			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 0.23	ND	0.232			0.00E+00	< 20.30	ND	20.3			0.00E+00	< 8.10	ND	8.10			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																		0.00E+00	
	16517-11-6	PFODA																		0.00E+00	
PFSA	375-73-5	PFBS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	10.40		5.00	J		1.62E+01	3.57E-11
	2706-91-4	PFPeS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	355-46-4	PFHnS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-92-8	PFHpS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	1763-23-1	PFOS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	12.30		5.00	J		1.92E+01	4.23E-11
	68259-12-1	PFNS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-77-3	PFDS	< 0.20	ND	0.200	*1		0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	79780-39-5	PFDoS	< 0.20	ND	0.200			0.00E+00	< 13.30	ND	13.3			0.00E+00	< 5.30	ND	5.30			0.00E+00	0.00E+00
FOSA	754-91-6	FOSA	0.26		0.252	J		3.50E+03	< 12.50	ND	12.5			0.00E+00	8.48		5.00	J		1.32E+01	7.75E-09
	31506-32-8	NMeFOSA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSAA	4151-50-2	NEtFOSA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSE	2991-50-6	NEtFOSAA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	24448-09-7	N-MeFOSE	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
FTS	1691-99-2	N-EtFOSE	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	757124-72-4	4:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	13.10		10.0	J		2.04E+01	4.50E-11
	39108-34-4	8:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
Fluorinated Replacement Chemicals	120226-60-0	10:2 FTS																		0.00E+00	
	13252-13-6	HFPO-DA	< 0.20	ND	0.200			0.00E+00	< 9.75	ND	9.75			0.00E+00	< 3.90	ND	3.90			0.00E+00	0.00E+00
	919005-14-4	DONA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.20	ND	0.200			0.00E+00	< 14.50	ND	14.5			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUDs	< 0.30	ND	0.300			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	377-73-1	PFECA F	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	863090-89-5	PFECA A	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	151772-58-6	PFECA B	< 0.25	ND	0.248			0.00E+00	< 18.00	ND	18.0			0.00E+00	< 7.20	ND	7.20			0.00E+00	0.00E+00
	113507-82-7	PES	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	356-05-2	3:3 FTCA	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	812-70-4	7:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	Additional Targets	70887-84-2	8:2 FTUCA																		
53826-13-4		10:2 FTCA																			
27854-31-5		8:2 FTCA																			
53826-12-3		6:2FTCA																			
133201-07-7		PFECHS																			
70887-88-6		6:2 FTUCA																			
Subtotal: Non-detect		11.83					0.00E+00	779.15					0.00E+00	276.60					0.00E+00		
Subtotal: Detected		1.38					1.87E+04	0.00					0.00E+00	145.28					2.26E+02		
Grand Total		13.21					1.87E+04	779.15					0.00E+00	421.88					2.26E+02	4.16E-08	
Material Density (lb/gal)			NA						9.01						9.34						
Material Flowrate (lb/hr)			29.82						7,393.37						3.85						

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-14. Process Field Samples - Run 2A

Table A-1-24. Process Field Samples - Run 2A			Utilities							Subtotal Utilities	Total Input
PFAS Category	CAS No. ^{(a)(b)}	Acronym	Process Water								
			P-1029 R2A PW								
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)	Flow (lb/hr)	
PFCA	375-22-4	PFBA	< 0.94	ND	0.936			0.00E+00	0.00E+00	4.64E-01	
	2706-90-3	PFPeA	< 0.47	ND	0.468			0.00E+00	0.00E+00	2.50E-02	
	307-24-4	PFHxA	< 0.47	ND	0.468			0.00E+00	0.00E+00	1.54E-01	
	375-85-9	PFHpA	< 0.47	ND	0.468			0.00E+00	0.00E+00	2.61E-02	
	335-67-1	PFOA	< 0.47	ND	0.468			0.00E+00	0.00E+00	1.74E-01	
	375-95-1	PFNA	< 0.47	ND	0.468			0.00E+00	0.00E+00	3.22E-02	
	335-76-2	PFDA	< 0.47	ND	0.468			0.00E+00	0.00E+00	4.56E-02	
	2058-94-8	PFUnA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	307-55-1	PFDoA	< 0.52	ND	0.515			0.00E+00	0.00E+00	0.00E+00	
	72629-94-8	PFTriA	< 0.54	ND	0.543			0.00E+00	0.00E+00	0.00E+00	
	376-06-7	PFTeA	< 0.76	ND	0.758			0.00E+00	0.00E+00	0.00E+00	
	67905-19-5	PFHxDA								0.00E+00	
	16517-11-6	PFODA								0.00E+00	
PFSA	375-73-5	PFBS	< 0.47	ND	0.468			0.00E+00	0.00E+00	2.03E-01	
	2706-91-4	PFPeS	< 0.47	ND	0.468			0.00E+00	0.00E+00	1.65E-01	
	355-46-4	PFHxS	< 0.47	ND	0.468			0.00E+00	0.00E+00	1.02E+00	
	375-92-8	PFHpS	< 0.47	ND	0.468			0.00E+00	0.00E+00	1.20E-01	
	1763-23-1	PFOS	< 0.47	ND	0.468			0.00E+00	0.00E+00	5.08E+00	
	68259-12-1	PFNS	< 0.47	ND	0.468			0.00E+00	0.00E+00	4.96E-03	
	335-77-3	PFDS	< 0.47	ND	0.468			0.00E+00	0.00E+00	3.06E-03	
	79780-39-5	PFDoS	< 0.50	ND	0.496			0.00E+00	0.00E+00	1.28E-03	
FOSA	754-91-6	FOSA	< 0.47	ND	0.468			0.00E+00	0.00E+00	7.75E-09	
	31506-32-8	NMeFOSA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
FOSAA	4151-50-2	NEtFOSA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	2355-31-9	NMeFOSAA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
FOSE	2991-50-6	NEtFOSAA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	24448-09-7	N-MeFOSE	< 2.34	ND	2.34			0.00E+00	0.00E+00	4.66E-06	
FTS	1691-99-2	N-EtFOSE	< 2.34	ND	2.34			0.00E+00	0.00E+00	7.72E-07	
	757124-72-4	4:2 FTS	< 0.94	ND	0.936			0.00E+00	0.00E+00	0.00E+00	
	27619-97-2	6:2 FTS	2.49		0.936	J		1.22E+04	2.68E-08	2.97E-06	
	39108-34-4	8:2 FTS	< 0.94	ND	0.936			0.00E+00	0.00E+00	1.39E-08	
	120226-60-0	10:2 FTS								0.00E+00	
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 0.37	ND	0.365			0.00E+00	0.00E+00	5.52E-01	
	919005-14-4	DONA	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	756426-58-1	9CI-PF3ONS	< 0.54	ND	0.543			0.00E+00	0.00E+00	0.00E+00	
	763051-92-9	11CI-PF3OUds	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	377-73-1	PFECA F	< 0.47	ND	0.468			0.00E+00	0.00E+00	4.56E-07	
Additional Targets	863090-89-5	PFECA A	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	151772-58-6	PFECA B	< 0.67	ND	0.674			0.00E+00	0.00E+00	0.00E+00	
	113507-82-7	PES	< 0.47	ND	0.468			0.00E+00	0.00E+00	0.00E+00	
	356-02-5	3:3 FTCA	< 0.94	ND	0.936			0.00E+00	0.00E+00	6.73E-07	
	914637-49-3	5:3 FTCA	< 2.34	ND	2.34			0.00E+00	0.00E+00	4.70E-06	
	812-70-4	7:3 FTCA	< 2.34	ND	2.34			0.00E+00	0.00E+00	0.00E+00	
	70887-84-2	8:2 FTUCA									
	53826-13-4	10:2 FTCA									
	27854-31-5	8:2 FTCA									
	53826-12-3	6:2 FTCA									
	133201-07-7	PFECHS									
70887-88-6	6:2 FTUCA										
Subtotal: Non-detect			28.23					0.00E+00			
Subtotal: Detected			2.49					1.22E+04			
Grand Total			30.72					1.22E+04	2.68E-08	8.07E+00	
Material Density (lb/gal)								8.34			
Material Flowrate (lb/hr)								10,788.51			

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-14. Process Field Samples - Run 2A

			Residuals																		
PFAS Category	CAS No. ^(b)	Acronym	Slag/Ash					Spray Dryer Solids					Baghouse Dust					Subtotal Residuals			
			P-1030 R2A SLAG/ASH					P-1032/P-1054 R2A SDS Weighted Average					P-1033 R2A BD								
			Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/g)	Non Detect	MDL ^(d) (ng/g)	Lab ^(d) Flag	DV ^(d) Flag	Flow (ng/hr)	Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)		Lab Flag	DV Flag	Flow (ng/hr)
PFCA	375-22-4	PFBA	27.80		0.286			6.44E+07	< 0.35	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	1.42E-04
	2706-90-3	PFPeA	0.36		0.143	J		8.34E+05	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	1.84E-06
	307-24-4	PFHxA	0.68		0.143			1.57E+06	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	3.46E-06
	375-85-9	PFHpA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	335-67-1	PFOA	1.07		0.177			2.48E+06	< 0.22	ND				0.00E+00	< 0.25	ND	0.248			0.00E+00	5.47E-06
	375-95-1	PFNA	0.59		0.143			1.37E+06	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	3.03E-06
	335-76-2	PFDA	0.50		0.143	J		1.16E+06	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	2.55E-06
	2058-94-8	PFUnA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 0.17	ND	0.166			0.00E+00	< 0.20	ND				0.00E+00	< 0.23	ND	0.232			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																			
	16517-11-6	PFODA																			
PFSA	375-73-5	PFBS	7.77		0.143			1.80E+07	< 0.23					1.18E+04	< 0.20	ND	0.200			0.00E+00	3.97E-05
	2706-91-4	PFPeS	1.71		0.143			3.96E+06	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	8.74E-06
	355-46-4	PFHxS	13.20		0.143			3.06E+07	< 0.18					4.62E+02	< 0.20	ND	0.200			0.00E+00	6.74E-05
	375-92-8	PFHpS	1.26		0.143			2.92E+06	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	6.44E-06
	1763-23-1	PFOS	68.60		0.143	E		1.59E+08	0.22					1.19E+04	< 0.20	ND	0.200			0.00E+00	3.50E-04
	68259-12-1	PFNS	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	335-77-3	PFDS	< 0.14	ND	0.143	*1		0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200	*1		0.00E+00	0.00E+00
	79780-39-5	PFDoS	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
FOSA	754-91-6	FOSA	0.21		0.180	J		4.89E+05	< 0.22	ND				0.00E+00	< 0.25	ND	0.252			0.00E+00	1.08E-06
	31506-32-8	NMeFOSA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	4151-50-2	NEtFOSA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
FOSAA	2355-31-9	NMeFOSAA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	2991-50-6	NetFOSAA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
FOSE	24448-09-7	N-MeFOSE	< 0.71	ND	0.714			0.00E+00	< 0.87	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
	1691-99-2	N-EtFOSE	< 0.71	ND	0.714			0.00E+00	< 0.87	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
FTS	757124-72-4	4:2 FTS	< 0.29	ND	0.286			0.00E+00	< 0.35	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	0.37		0.286	J		8.53E+05	< 0.35					8.69E+02	< 0.40	ND	0.400			0.00E+00	1.88E-06
	39108-34-4	8:2 FTS	< 0.29	ND	0.286			0.00E+00	< 0.35	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
	120226-60-0	10:2 FTS																			
	13252-13-6	HFPO-DA	7.00		0.143			1.62E+07	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	3.58E-05
Fluorinated Replacement Chemicals	919005-14-4	DONA	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUdS	< 0.21	ND	0.214			0.00E+00	< 0.26	ND				0.00E+00	< 0.30	ND	0.300			0.00E+00	0.00E+00
	377-73-1	PFECA F	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	863090-89-5	PFECA A	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	151772-58-6	PFECA B	< 0.18	ND	0.177			0.00E+00	< 0.22	ND				0.00E+00	< 0.25	ND	0.248			0.00E+00	0.00E+00
	113507-82-7	PES	< 0.14	ND	0.143			0.00E+00	< 0.17	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	< 0.29	ND	0.286			0.00E+00	< 0.35	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	< 0.71	ND	0.714			0.00E+00	< 0.87	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
	812-70-4	7:3 FTCA	< 0.71	ND	0.714			0.00E+00	< 0.87	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
Additional Targets	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTCA																			
	27854-31-5	8:2 FTCA																			
	53826-12-3	6:2 FTCA																			
	133201-07-7	PFECHS																			
	70887-88-6	6:2 FTUCA																			
	Subtotal: Non-detect		6.56					0.00E+00	9.98					0.00E+00	12.48					0.00E+00	
	Subtotal: Detected		131.12					3.04E+08	0.98					2.50E+04	0.00					0.00E+00	
	Grand Total		137.68					3.04E+08	10.97					2.50E+04	12.48					0.00E+00	6.70E-04
	Material Density (lb/gal)							NA						NA						NA	
Material Flowrate (lb/hr)							5,108.81						117.64						1,106.92		

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-14. Process Field Samples - Run 2A

PFAS Category	CAS No. ^{(a)(b)}	Acronym	Internal Recycle					
			Brine					
			P-1031 R2A BRINE					
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)
PFCA	375-22-4	PFBA	2.10		0.514	J		6.10E+04
	2706-90-3	PFPeA	3.91		0.457			1.14E+05
	307-24-4	PFHxA	2.37		0.457			6.88E+04
	375-85-9	PFHpA	< 0.46	ND	0.457			0.00E+00
	335-67-1	PFOA	< 0.46	ND	0.457			0.00E+00
	375-95-1	PFNA	< 0.46	ND	0.457			0.00E+00
	335-76-2	PFDA	< 0.46	ND	0.457			0.00E+00
	2058-94-8	PFLnA	< 0.46	ND	0.457			0.00E+00
	307-55-1	PFDoA	< 0.50	ND	0.503			0.00E+00
	72629-94-8	PFTriA	< 0.53	ND	0.530			0.00E+00
	376-06-7	PFTeA	< 0.74	ND	0.740			0.00E+00
	67905-19-5	PFHxDA						
	16517-11-6	PFODA						
PFSA	375-73-5	PFBS	< 0.46	ND	0.457			0.00E+00
	2706-91-4	PFPeS	< 0.46	ND	0.457			0.00E+00
	355-46-4	PFHxS	< 0.46	ND	0.457			0.00E+00
	375-92-8	PFHpS	< 0.46	ND	0.457			0.00E+00
	1763-23-1	PFOS	0.53		0.457	J		1.55E+04
	68259-12-1	PfNS	< 0.46	ND	0.457			0.00E+00
	335-77-3	PFDS	< 0.46	ND	0.457			0.00E+00
	79780-39-5	PFDoS	< 0.48	ND	0.484			0.00E+00
	754-91-6	FOSA	< 0.46	ND	0.457			0.00E+00
FOSA	31506-32-8	NMeFOSA	< 0.46	ND	0.457			0.00E+00
	4151-50-2	NEtFOSA	< 0.46	ND	0.457			0.00E+00
FOSAA	2355-31-9	NMeFOSAA	< 0.46	ND	0.457			0.00E+00
	2991-50-6	NEtFOSAA	< 0.46	ND	0.457			0.00E+00
FOSE	24448-09-7	N-MeFOSE	< 2.28	ND	2.28			0.00E+00
	1691-99-2	N-EtFOSE	< 2.28	ND	2.28			0.00E+00
FTS	757324-72-4	4:2 FTS	< 0.91	ND	0.914			0.00E+00
	27619-97-2	6:2 FTS	1.68		0.914	J		4.88E+04
	39108-34-4	8:2 FTS	< 0.91	ND	0.914			0.00E+00
	120226-60-0	10:2 FTS						
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 0.36	ND	0.356			0.00E+00
	919005-14-4	DONA	< 0.46	ND	0.457			0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.53	ND	0.530			0.00E+00
	763051-92-9	11CI-PF3Ouds	< 0.46	ND	0.457			0.00E+00
	377-73-1	PFECA F	< 0.46	ND	0.457			0.00E+00
Additional Targets	863090-89-5	PFECA A	< 0.46	ND	0.457			0.00E+00
	151772-58-6	PFECA B	< 0.66	ND	0.658			0.00E+00
	113507-82-7	PES	< 0.46	ND	0.457			0.00E+00
	356-02-5	3:3 FTCA	< 0.91	ND	0.914			0.00E+00
	914637-49-3	5:3 FTCA	< 2.28	ND	2.28			0.00E+00
	812-70-4	7:3 FTCA	< 2.28	ND	2.28			0.00E+00
	70887-84-2	8:2 FTUCA						
	53826-13-4	10:2 FTCA						
	27854-31-5	8:2 FTCA						
	53826-12-3	6:2 FTCA						
	133201-07-7	PFECHS						
	70887-88-6	6:2 FTUCA						
Subtotal: Non-detect			25.26					0.00E+00
Subtotal: Detected			10.59					3.08E+05
Grand Total			35.85					3.08E+05
Material Density (lb/gal)								8.60
Material Flowrate (lb/hr)								66,036.79

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

PFAS Category	CAS No. (a)(b)	Acronym	Afterburner Waste Feeds															Subtotal Waste Feeds			
			A105A Aqueous Liquid (North ABC)					A105B Aqueous Liquid (South ABC)					A106A UMO (North ABC)								
			P-1037 R3A AQU. LIQ					P-1037 R3A AQU. LIQ					P-1036 R3A UMO								
			Conc. (c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. (c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. (c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)
PFCA	375-22-4	PFBA	9,800.00		50.0			8.87E+06	9,800.00		50.0			6.62E+06	4,040.00		100			8.00E+05	1.78E-02
	1706-90-3	PFPeA	690.00		25.0	I		6.24E+05	690.00		25.0	I		4.66E+05	< 50.00	ND	50.0			0.00E+00	2.22E-02
	307-24-4	PFHxA	636.00		25.0			5.75E+05	636.00		25.0			4.30E+05	< 50.00	ND	50.0			0.00E+00	7.05E-02
	375-85-9	PFHxA	113.00		25.0			1.02E+05	113.00		25.0			7.63E+04	< 50.00	ND	50.0			0.00E+00	2.14E-02
	335-67-1	PFOA	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0	J		3.09E+04	7.15E-02
	375-95-1	PFNA	34.20		5.00			3.09E+04	34.20		5.00			2.31E+04	< 50.00	ND	50.0			0.00E+00	6.12E-07
	335-76-2	PFDA	10.90		5.00	J		9.86E+03	10.90		5.00	J		7.36E+03	< 50.00	ND	50.0			0.00E+00	1.50E-07
	2058-94-8	PFUnA	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 5.50	ND	5.50			0.00E+00	< 5.50	ND	5.50			0.00E+00	< 55.00	ND	55.0			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 5.80	ND	5.80			0.00E+00	< 5.80	ND	5.80			0.00E+00	< 58.00	ND	58.0			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 8.10	ND	8.10			0.00E+00	< 8.10	ND	8.10			0.00E+00	< 81.00	ND	81.0			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																			
	16517-11-6	PFODA																			
PFSA	375-73-5	PFBS	2,990.00		5.00			2.70E+06	2,990.00		5.00			2.02E+06	< 50.00	ND	50.0			0.00E+00	9.59E-02
	2706-91-4	PFPeS	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	1.42E-01
	355-48-4	PFHxS	297.00		5.00			2.69E+05	297.00		5.00			2.01E+05	< 50.00	ND	50.0			0.00E+00	8.65E-01
	375-92-8	PFHpS	27.00		5.00			2.44E+04	27.00		5.00			1.82E+04	< 50.00	ND	50.0			0.00E+00	1.12E-01
	1763-23-1	PFOS	535.00		5.00			4.84E+05	535.00		5.00			3.61E+05	239.00		50.0			4.73E+04	4.46E+00
	68259-12-1	PFNS	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	3.95E-03
	335-77-3	PFDS	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	2.73E-03
	79780-39-5	PFDoS	< 5.30	ND	5.30			0.00E+00	< 5.30	ND	5.30			0.00E+00	< 53.00	ND	53.0			0.00E+00	1.37E-03
	754-91-6	FOSA	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	8.30E-09
	31506-32-8	NMeFOSA	7.60		5.00	J		6.87E+03	7.60		5.00	J		5.13E+03	< 50.00	ND	50.0			0.00E+00	2.65E-08
FOSA	4151-50-2	NEtFOSA	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	< 5.00	ND	5.00			0.00E+00	< 5.00	ND	5.00			0.00E+00	< 50.00	ND	50.0			0.00E+00	1.18E-07
	2991-50-6	NEtFOSAA	8.05		5.00	J		7.28E+03	8.05		5.00	J		5.44E+03	< 50.00	ND	50.0			0.00E+00	1.95E-06
	24448-09-7	NMeFOSSE	109.00		25.0			9.86E+04	109.00		25.0			7.36E+04	< 250.00	ND	250			0.00E+00	3.80E-07
FOSE	1691-99-2	N-EtFOSE	84.20		25.0	J		7.62E+04	84.20		25.0	J		5.69E+04	< 250.00	ND	250			0.00E+00	2.93E-07
	757124-72-4	4:2 FTS	< 100.00	ND	100			0.00E+00	< 100.00	ND	100			0.00E+00	< 100.00	ND	100			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	1,110.00		100			1.00E+06	1,110.00		100			7.50E+05	715.00		100			1.48E+05	7.39E-06
	39108-34-4	8:2 FTS	< 100.00	ND	100			0.00E+00	< 100.00	ND	100			0.00E+00	< 100.00	ND	100			0.00E+00	3.01E-07
Fluorinated Replacement Chemicals	120226-60-0	10:2 FTS																			
	13252-13-6	HFPO-DA	< 19.50	ND	19.5			0.00E+00	< 19.50	ND	19.5			0.00E+00	< 39.00	ND	39.0			0.00E+00	2.03E-07
	919005-14-4	DONA	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
	756426-58-1	9Cl-PF3ONS	< 29.00	ND	29.0			0.00E+00	< 29.00	ND	29.0			0.00E+00	< 58.00	ND	58.0			0.00E+00	0.00E+00
	763051-92-9	11Cl-PF3OudS	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
	377-73-1	PFCEA F	25.80		25.0	J		2.33E+04	25.80		25.0	J		1.74E+04	353.00		50.0			6.99E+04	6.39E-07
	863090-89-5	PFCEA A	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
Additional Targets	151772-58-6	PFCEA B	< 36.00	ND	36.0			0.00E+00	< 36.00	ND	36.0			0.00E+00	< 72.00	ND	72.0			0.00E+00	0.00E+00
	113507-82-7	PES	< 25.00	ND	25.0			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 50.00	ND	50.0			0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	< 10.00	ND	10.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	< 100.00	ND	100			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	252.00		125	J		2.28E+05	252.00		125	J		1.70E+05	< 250.00	ND	250			0.00E+00	8.78E-07
	812-70-4	7:3 FTCA	< 125.00	ND	125			0.00E+00	< 125.00	ND	125			0.00E+00	< 250.00	ND	250			0.00E+00	0.00E+00
	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTUCA																			
	27854-31-5	8:2 FTCA																			
	53826-12-3	6:2 FTCA																			
	133201-07-7	PFECIS																			
	70887-88-6	6:2 FTUCA																			
Subtotal: Non-detected			584.20					0.00E+00	584.20					0.00E+00	2,766.00					0.00E+00	
Subtotal: Detected			16,729.75					1.51E+07	16,729.75					1.13E+07	5,503.00					1.14E+06	
Grand Total			17,313.95					1.51E+07	17,313.95					1.13E+07	8,269.00					1.14E+06	5.88E+00
Material Density (lb/gal)								8.26						8.26						7.67	
Material Flowrate (lb/hr)								1,975.91						1,475.80						401.87	

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

Table A-1-15. Process Field Samples - run 3A			PFAS Spikes		Total Waste Feeds, Fuels, Spikes
PFAS Category	CAS No. ^{(a)(b)}	Acronym	PFAS Spikes (Rotary Kiln)	Contribution from Spikes	
			Flow (lb/hr)	(% of Total)	Flow (lb/hr)
PFCA	375-22-4	PFBA	5.22E-01	96.698	5.40E-01
	2706-90-3	PFPeA	0.000	0.000	2.22E-02
	307-24-4	PFHxA	1.08E-01	60.572	1.79E-01
	375-85-9	PFHpA		0.000	2.14E-02
	335-67-1	PFOA	9.81E-02	57.834	1.70E-01
	375-95-1	PFNA	3.78E-02	99.998	3.78E-02
	335-76-2	PFDA	5.36E-02	100.000	5.36E-02
	2058-94-8	PFUnA		---	0.00E+00
	307-55-1	PFDoA		---	0.00E+00
	72629-94-8	PFTriA		---	0.00E+00
	376-06-7	PFTeA		---	0.00E+00
	67905-19-5	PFHxDA			
	16517-11-6	PFODA			
PFSA	375-73-5	PFBS	1.00E-01	51.140	1.96E-01
	2706-91-4	PFPeS		0.000	1.42E-01
	355-46-4	PFHxS	3.66E-02	4.060	9.02E-01
	375-92-8	PFHpS		0.000	1.12E-01
	1763-23-1	PFOS	7.66E-02	1.691	4.53E+00
	68259-12-1	PFNS		0.000	3.95E-03
	335-77-3	PFDS		0.000	2.73E-03
FOSA	79780-39-5	PFDoS		0.000	1.37E-03
	754-91-6	FOSA		0.000	8.30E-09
FOSAA	31506-32-8	NMeFOSA		0.000	2.65E-08
	4151-50-2	NEtFOSA		---	0.00E+00
FOSE	2355-31-9	NMeFOSAA		0.000	1.18E-07
	2991-50-6	NEtFOSAA		0.000	1.95E-06
	24448-09-7	N-MeFOSE		0.000	3.80E-07
	1691-99-2	N-EtFOSE		0.000	2.93E-07
FTS	757124-72-4	4:2 FTS		---	0.00E+00
	27619-97-2	6:2 FTS		0.000	7.39E-06
	39108-34-4	8:2 FTS		0.000	3.01E-07
	120226-60-0	10:2 FTS			
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	6.49E-01	100.000	6.49E-01
	919005-14-4	DONA		---	0.00E+00
Additional Targets	756426-58-1	9CI-PF3ONS		---	0.00E+00
	763051-92-9	11CI-PF3OUdS		---	0.00E+00
	377-73-1	PFECA F		0.000	6.39E-07
	863090-89-5	PFECA A		---	0.00E+00
	151772-58-6	PFECA B		---	0.00E+00
	113507-82-7	PES		---	0.00E+00
	356-02-5	3:3 FTCA		---	0.00E+00
	914637-49-3	5:3 FTCA		0.000	8.78E-07
	812-70-4	7:3 FTCA		---	0.00E+00
	70887-84-2	8:2 FTUCA			
	53826-13-4	10:2 FTCA			
	27854-31-5	8:2 FTCA			
	53826-12-3	6:2 FTCA			
	133201-07-7	PFECHS			
	70887-88-6	6:2 FTUCA			
	Subtotal: Non-detect				
	Subtotal: Detected				
	Grand Total		1.68E+00		7.57E+00
Material Density (lb/gal)					
Material Flowrate (lb/hr)					

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

PFAS Category	CAS No. ^{(a)(b)}	Acronym	Chemicals																		Subtotal Chemicals
			Powdered Activated Carbon						Soda Ash						TMT-15						
			P-1045 R3A PAC						P-1044 R3A SODA ASH SOL						P-1043 R3A TMT						
			Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/L)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Flow (lb/hr)
PFCA	375-22-4	PFBA	1.58		0.400	J		2.10E+04	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	4.63E-08
	2706-90-3	PFPeA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-24-4	PFHxA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	375-85-9	PFHpA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-67-1	PFDA	< 0.25	ND	0.248			0.00E+00	< 12.50	ND	12.5			0.00E+00	15.50		5.00	J		2.31E+01	5.09E-11
	375-95-1	PFNA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-76-2	PFDA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2058-94-8	PFUnA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 0.20	ND	0.200			0.00E+00	< 13.80	ND	13.8			0.00E+00	< 5.50	ND	5.50			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 0.20	ND	0.200			0.00E+00	< 14.50	ND	14.5			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 0.23	ND	0.232			0.00E+00	< 20.30	ND	20.3			0.00E+00	< 8.10	ND	8.10			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																		0.00E+00	
	16517-11-6	PFODA																		0.00E+00	
PFSA	375-73-5	PFBs	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	26.50		5.00			3.95E+01	8.70E-11
	2706-91-4	PFPeS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	18.90		5.00	J		2.81E+01	6.20E-11
	355-46-4	PFHxS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	160.00		5.00			2.38E+02	5.25E-10
	375-92-8	PFHpS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	11.20		5.00	J		1.67E+01	3.68E-11
	1763-23-1	PFOS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	600.00		5.00			8.93E+02	1.97E-09
	68259-12-1	PFNS	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	335-77-3	PFDS	< 0.20	ND	0.200	*1		0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	79780-39-5	PFDoS	< 0.20	ND	0.200			0.00E+00	< 13.30	ND	13.3			0.00E+00	< 5.30	ND	5.30			0.00E+00	0.00E+00
	754-91-6	FOSA	0.33		0.252	J		4.37E+03	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	9.63E-09
	31506-32-8	NMeFOSA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSA	4151-50-2	NEtFOSA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
FOSAA	2991-50-6	NEtFOSAA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	24448-09-7	N-MeFOSE	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
FOSE	1691-99-2	N-EtFOSE	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	757124-72-4	4:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	27619-97-2	6:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	22.30		10.0	J		3.32E+01	7.32E-11
	39108-34-4	8:2 FTS	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	120226-60-0	10:2 FTS																		0.00E+00	
	13252-13-6	HFPO-DA	< 0.20	ND	0.200			0.00E+00	< 9.75	ND	9.75			0.00E+00	< 3.90	ND	3.90			0.00E+00	0.00E+00
Fluorinated Replacement Chemicals	919005-14-4	DONA	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.20	ND	0.200			0.00E+00	< 14.50	ND	14.5			0.00E+00	< 5.80	ND	5.80			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUDs	< 0.30	ND	0.300			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	377-73-1	PFECA F	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	863090-89-5	PFECA A	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
Additional Targets	151772-58-6	PFECA B	< 0.25	ND	0.248			0.00E+00	< 18.00	ND	18.0			0.00E+00	< 7.20	ND	7.20			0.00E+00	0.00E+00
	113507-82-7	PES	< 0.20	ND	0.200			0.00E+00	< 12.50	ND	12.5			0.00E+00	< 5.00	ND	5.00			0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	< 0.40	ND	0.400			0.00E+00	< 25.00	ND	25.0			0.00E+00	< 10.00	ND	10.0			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	812-70-4	7:3 FTCA	< 1.00	ND	1.00			0.00E+00	< 62.50	ND	62.5			0.00E+00	< 25.00	ND	25.0			0.00E+00	0.00E+00
	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTCA																			
	27854-31-5	8:2 FTCA																			
	53826-12-3	6:2 FTCA																			
	133201-07-7	PFECHS																			
	70887-88-6	6:2 FTUCA																			
	Subtotal: Non-detect		11.83					0.00E+00	779.15					0.00E+00	271.60					0.00E+00	
	Subtotal: Detected		1.91					2.54E+04	0.00					0.00E+00	854.40					1.27E+03	
	Grand Total		13.74					2.54E+04	779.15					0.00E+00	1,126.00					1.27E+03	5.87E-08
Material Density (lb/gal)			NA						9.01						9.34						
Material Flowrate (lb/hr)			29.28						4,633.70						3.68						

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

			Utilities						Subtotal Utilities	Total Input	
PFAS Category	CAS No. ^{(a)(b)}	Acronym	Process Water						Flow (lb/hr)	Flow (lb/hr)	
			P-1046 R3A PW								
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)			
PFCA	375-22-4	PFBA	< 0.94	ND	0.939			0.00E+00	0.00E+00	5.40E-01	
	2706-90-3	PFPeA	< 0.47	ND	0.470			0.00E+00	0.00E+00	2.22E-02	
	307-24-4	PFHxA	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.79E-01	
	375-85-9	PFHpA	< 0.47	ND	0.470			0.00E+00	0.00E+00	2.14E-02	
	335-67-1	PFOA	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.70E-01	
	375-95-1	PFNA	< 0.47	ND	0.470			0.00E+00	0.00E+00	3.78E-02	
	335-76-2	PFDA	< 0.47	ND	0.470			0.00E+00	0.00E+00	5.36E-02	
	2058-94-8	PFUnA	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
	307-55-1	PFDoA	< 0.52	ND	0.517			0.00E+00	0.00E+00	0.00E+00	
	72629-94-8	PFTriA	< 0.55	ND	0.545			0.00E+00	0.00E+00	0.00E+00	
	376-06-7	PFTeA	< 0.76	ND	0.761			0.00E+00	0.00E+00	0.00E+00	
	67905-19-5	PFHxDA								0.00E+00	
	16517-11-6	PFODA								0.00E+00	
PFSA	375-73-5	PFBS	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.96E-01	
	2706-91-4	PFPeS	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.42E-01	
	355-46-4	PFHxS	< 0.47	ND	0.470			0.00E+00	0.00E+00	9.02E-01	
	375-92-8	PFHpS	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.12E-01	
	1763-23-1	PFOS	< 0.47	ND	0.470			0.00E+00	0.00E+00	4.53E+00	
	68259-12-1	PFSN	< 0.47	ND	0.470			0.00E+00	0.00E+00	3.95E-03	
	335-77-3	PFDS	< 0.47	ND	0.470			0.00E+00	0.00E+00	2.73E-03	
FOSA	79780-39-5	PFDoS	< 0.50	ND	0.498			0.00E+00	0.00E+00	1.37E-03	
	754-91-6	FOSA	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.79E-08	
FOSAA	31506-32-8	NMeFOSA	< 0.47	ND	0.470			0.00E+00	0.00E+00	2.65E-08	
	4151-50-2	NEtFOSA	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
FOSE	2355-31-9	NMeFOSAA	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.18E-07	
	2991-50-6	NEtFOSAA	< 0.47	ND	0.470			0.00E+00	0.00E+00	1.95E-06	
FTS	24448-09-7	N-MeFOSE	< 2.35	ND	2.35			0.00E+00	0.00E+00	3.80E-07	
	1691-99-2	N-EtFOSE	< 2.35	ND	2.35			0.00E+00	0.00E+00	2.93E-07	
	757124-72-4	4:2 FTS	< 0.94	ND	0.939			0.00E+00	0.00E+00	0.00E+00	
	27619-97-2	6:2 FTS	1.42		0.939	J		4.70E+03	1.04E-08	7.40E-06	
	39108-34-4	8:2 FTS	< 0.94	ND	0.939			0.00E+00	0.00E+00	3.01E-07	
Additional Targets	120226-60-0	10:2 FTS								0.00E+00	
	13252-13-6	HPFO-DA	< 0.37	ND	0.366			0.00E+00	0.00E+00	6.49E-01	
	919005-14-4	DONA	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
	756426-58-1	9CI-PF3ONS	< 0.55	ND	0.545			0.00E+00	0.00E+00	0.00E+00	
	763051-92-9	11CI-PF3OUdS	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
	377-73-1	PFECA F	< 0.47	ND	0.470			0.00E+00	0.00E+00	6.39E-07	
	863090-89-5	PFECA A	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
	151772-58-6	PFECA B	< 0.68	ND	0.676			0.00E+00	0.00E+00	0.00E+00	
	113507-82-7	PES	< 0.47	ND	0.470			0.00E+00	0.00E+00	0.00E+00	
	356-02-5	3:3 FTCA	< 0.94	ND	0.939			0.00E+00	0.00E+00	0.00E+00	
	914637-49-3	5:3 FTCA	< 2.35	ND	2.35			0.00E+00	0.00E+00	8.78E-07	
	812-70-4	7:3 FTCA	< 2.35	ND	2.35			0.00E+00	0.00E+00	0.00E+00	
	70887-84-2	8:2 FTUCA									
	53826-13-4	10:2 FTCA									
	27854-31-5	8:2 FTCA									
	53826-12-3	6:2FTCA									
	133201-07-7	PFECHS									
70887-88-6	6:2 FTUCA										
Subtotal: Non-detect			28.34					0.00E+00			
Subtotal: Detected			1.42					4.70E+03			
Grand Total			29.76					4.70E+03	1.04E-08		
Material Density (lb/gal)										8.34	
Material Flowrate (lb/hr)										7,301.68	

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

		Residuals																			Subtotal Residuals
PFAS Category	CAS No. ^{(b)(6)}	Acronym	Slag/Ash						Spray Dryer Solids						Baghouse Dust						Flow (lb/hr)
			P-1047 R3A SLAG/ASH						P-1049/P-1055 R3A/SDS Weighted Average						P-1050 R3A BD						
			Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	Conc. ^(c) (ng/g)	Non Detect	MDL ^(d) (ng/g)	Lab ^(d) Flag	DV ^(d) Flag	Flow (ng/hr)	Conc. ^(c) (ng/g)	Non Detect	MDL (ng/g)	Lab Flag	DV Flag	Flow (ng/hr)	
PFCA	375-22-4	PFBA	14.00		0.333			3.04E+07	< 0.32	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	6.70E-05
	2706-90-3	PFPeA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	307-24-4	PFHxA	0.31		0.167	J		6.62E+05	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	1.46E-06
	375-85-9	PFHpA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	335-67-1	PFOA	0.22		0.207	J		4.71E+05	< 0.20	ND				0.00E+00	< 0.25	ND	0.248			0.00E+00	1.04E-06
	375-95-1	PFNA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	335-76-2	PFDA	< 0.17	ND	0.167			0.00E+00	< 0.27					6.92E+03	< 0.20	ND	0.200			0.00E+00	1.53E-08
	2058-94-8	PFUnA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	307-55-1	PFDoA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	72629-94-8	PFTriA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	376-06-7	PFTeA	< 0.19	ND	0.193			0.00E+00	< 0.19	ND				0.00E+00	< 0.23	ND	0.232			0.00E+00	0.00E+00
	67905-19-5	PFHxDA																			
	16517-11-6	PFODA																			
PFSA	375-73-5	PFBS	1.33		0.167			2.89E+06	< 0.18					8.35E+03	0.24		0.200	J		1.15E+05	6.64E-06
	2706-91-4	PFPeS	0.45		0.167	J		9.66E+05	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	2.13E-06
	355-46-4	PFHxS	3.06		0.167			6.64E+06	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	1.46E-05
	375-92-8	PFHpS	0.27		0.167	J		5.95E+05	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	1.31E-06
	1763-23-1	PFOS	17.20		0.167			3.73E+07	< 0.16					3.21E+02	< 0.20	ND	0.200			0.00E+00	8.23E-05
	68259-12-1	PFNS	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	335-77-3	PFDS	< 0.17	ND	0.167	*1		0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200	*1		0.00E+00	0.00E+00
	79780-39-5	PFDoS	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	754-91-6	FOSA	0.26		0.210	J		5.69E+05	< 0.20	ND				0.00E+00	< 0.25	ND	0.252			0.00E+00	1.25E-06
	31506-32-8	NMeFOSA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
FOSA	4151-50-2	NEtFOSA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	2355-31-9	NMeFOSAA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
FOSAA	2991-50-6	NEtFOSAA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	24448-09-7	N-MeFOSE	< 0.83	ND	0.833			0.00E+00	< 0.80	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
FOSE	1691-99-2	N-EtFOSE	< 0.83	ND	0.833			0.00E+00	< 0.80	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
	757124-72-4	4:2 FTS	< 0.33	ND	0.333			0.00E+00	< 0.32	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
FTS	27619-97-2	6:2 FTS	0.41		0.333	J		8.99E+05	< 0.32	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	1.98E-06
	39108-34-4	8:2 FTS	< 0.33	ND	0.333			0.00E+00	< 0.32	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
	120226-60-0	10:2 FTS																			
	13252-13-6	HFPO-DA	0.27		0.167	J		5.82E+05	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	1.28E-06
Fluorinated Replacement Chemicals	919005-14-4	DONA	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	763051-92-9	11CI-PF3OUdS	< 0.25	ND	0.250			0.00E+00	< 0.24	ND				0.00E+00	< 0.30	ND	0.300			0.00E+00	0.00E+00
	377-73-1	PFECa F	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	863090-89-5	PFECa A	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	151772-58-6	PFECa B	< 0.21	ND	0.207			0.00E+00	< 0.20	ND				0.00E+00	< 0.25	ND	0.248			0.00E+00	0.00E+00
	113507-82-7	PES	< 0.17	ND	0.167			0.00E+00	< 0.16	ND				0.00E+00	< 0.20	ND	0.200			0.00E+00	0.00E+00
	356-02-5	3:3 FTCA	< 0.33	ND	0.333			0.00E+00	< 0.32	ND				0.00E+00	< 0.40	ND	0.400			0.00E+00	0.00E+00
	914637-49-3	5:3 FTCA	< 0.83	ND	0.833			0.00E+00	< 0.80	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
	812-70-4	7:3 FTCA	< 0.83	ND	0.833			0.00E+00	< 0.80	ND				0.00E+00	< 1.00	ND	1.00			0.00E+00	0.00E+00
	70887-84-2	8:2 FTUCA																			
	53826-13-4	10:2 FTCA																			
27854-31-5	8:2 FTCA																				
53826-12-3	6:2FTCA																				
133201-07-7	PFECHS																				
70887-88-6	6:2 FTUCA																				
Subtotal: Non-detected			8.15					0.00E+00	9.56					0.00E+00	12.28					0.00E+00	
Subtotal: Detected			37.78					8.20E+07	0.61					1.56E+04	0.24					1.15E+05	
Grand Total			45.93					8.20E+07	10.17					1.56E+04	12.52					1.15E+05	1.81E-04
Material Density (lb/gal)			NA						NA						NA						
Material Flowrate (lb/hr)			4,786.79						117.64						1,073.33						

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-15. Process Field Samples - Run 3A

			Internal Recycle					
PFAS Category	CAS No. ^{(a)(b)}	Acronym	Brine					
			P-1048 R3A BRINE					
			Conc. ^(c) (ng/L)	Non Detect	MDL (ng/L)	Lab Flag	DV Flag	Flow (ng/hr)
PFCA	375-22-4	PFBA	2.64		0.946	J		7.66E+04
	2706-90-3	PFPeA	3.60		0.473			1.05E+05
	307-24-4	PFHxA	2.27		0.473			6.59E+04
	375-85-9	PFHpA	< 0.47	ND	0.473			0.00E+00
	335-67-1	PFOA	< 0.47	ND	0.473			0.00E+00
	375-95-1	PFNA	< 0.47	ND	0.473			0.00E+00
	335-76-2	PFDA	< 0.47	ND	0.473			0.00E+00
	2058-94-8	PFLnA	< 0.47	ND	0.473			0.00E+00
	307-55-1	PFDoA	< 0.52	ND	0.520			0.00E+00
	72629-94-8	PFTriA	< 0.55	ND	0.548			0.00E+00
	376-06-7	PFTeA	< 0.77	ND	0.766			0.00E+00
	67905-19-5	PFHxDA						
	16517-11-6	PFODA						
PFSA	375-73-5	PFBS	< 0.47	ND	0.473			0.00E+00
	2706-91-4	PFPeS	< 0.47	ND	0.473			0.00E+00
	355-46-4	PFHxS	< 0.47	ND	0.473			0.00E+00
	375-92-8	PFHpS	< 0.47	ND	0.473			0.00E+00
	1763-23-1	PFOS	< 0.47	ND	0.473			0.00E+00
	68259-12-1	PFNS	< 0.47	ND	0.473			0.00E+00
	335-77-3	PFDS	< 0.47	ND	0.473			0.00E+00
	79780-39-5	PFDoS	< 0.50	ND	0.501			0.00E+00
FOSA	754-91-6	FOSA	< 0.47	ND	0.473			0.00E+00
FOSAA	31506-32-8	NMeFOSA	< 0.47	ND	0.473			0.00E+00
	4151-50-2	NeFOSA	< 0.47	ND	0.473			0.00E+00
FOSE	2355-31-9	NMeFOSAA	< 0.47	ND	0.473			0.00E+00
	2991-50-6	NeFOSAA	< 0.47	ND	0.473			0.00E+00
FTS	24448-09-7	N-MeFOSE	< 2.36	ND	2.36			0.00E+00
	1691-99-2	N-EtFOSE	< 2.36	ND	2.36			0.00E+00
	757124-72-4	4:2 FTS	< 0.95	ND	0.946			0.00E+00
Fluorinated Replacement Chemicals	27619-97-2	6:2 FTS	< 0.95	ND	0.946			0.00E+00
	39108-34-4	8:2 FTS	< 0.95	ND	0.946			0.00E+00
	120226-60-0	10:2 FTS						
Additional Targets	13252-13-6	HFPO-DA	< 0.37	ND	0.369			0.00E+00
	919005-14-4	DONA	< 0.47	ND	0.473			0.00E+00
	756426-58-1	9CI-PF3ONS	< 0.55	ND	0.548			0.00E+00
	763051-92-9	11CI-PF3Ouds	< 0.47	ND	0.473			0.00E+00
	377-73-1	PFECA F	< 0.47	ND	0.473			0.00E+00
	863090-89-5	PFECA A	< 0.47	ND	0.473			0.00E+00
	151772-58-6	PFECA B	< 0.68	ND	0.681			0.00E+00
	113507-82-7	PES	< 0.47	ND	0.473			0.00E+00
	356-02-5	3:3 FTCA	< 0.95	ND	0.946			0.00E+00
	914637-49-3	5:3 FTCA	< 2.36	ND	2.36			0.00E+00
	812-70-4	7:3 FTCA	< 2.36	ND	2.36			0.00E+00
	70887-84-2	8:2 FTUCA						
	53826-13-4	10:2 FTCA						
	27854-31-5	8:2 FTCA						
53826-12-3	6:2FTCA							
133201-07-7	PFECHS							
70887-88-6	6:2 FTUCA							
	Subtotal: Non-detect		27.56					0.00E+00
	Subtotal: Detected		8.51					2.47E+05
	Grand Total		36.07					2.47E+05
Material Density (lb/gal)			8.57					
Material Flowrate (lb/hr)			65,844.63					

(a) Yellow shading - spiking compound during Runs 1A, 2A, 3A

(b) Blue shading - not target analytes for EPA Method 1633.

(c) Pink shading, red text - compound detected

(d) See Spray Dryer Solids (SDS) worksheet for raw data.

Table A-1-17. OTM-45 Data Reduction - Run 1A

PFAS Category	CAS No. (a,b,c)	Acronym	S-2001,2002 R1A OTM-45 FH					S-2003,2004,R1A OTM-45 BH					S-2005,2006 R1A OTM-45 CONDENSATE,IMPINGER SOLVENT RINSE					S-2007 R1A OTM-45 BT XAD					Break ^(d) Through Check (%)	
			Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag		
PFCA	375-22-4	PFBA	< 1.300	ND	1.30		U	< 7.100	ND	7.10		U	9.400		1.10	B		< 7.100	ND	7.10		U	(e)	
	2706-90-3	PFPeA	1.630		0.180			2.430		0.830			36.000		0.260			< 0.830	ND	0.830		U	(e)	
	307-24-4	PFHxA	1.660		0.210	B	J+	1.120		0.740			4.160		0.760			< 0.74	ND	0.740		U	(e)	
	375-85-9	PFHpA	6.070		0.620	B	J+	2.550		1.60	J	J	4.060		0.260			< 1.600	ND	1.60		U	(e)	
	335-67-1	PFOA	1.080		0.650		J+	1.660		0.390		J+	< 0.380	ND	0.380		U	< 0.557		0.390	J	U	(e)	
	375-95-1	PFNA	0.113		0.0850	J	U	0.849		0.170	J	U	< 0.210	ND	0.210		U	0.198		0.170	J	J	(e)	
	335-76-2	PFDA	0.397		0.250	J	U	0.477		0.420	J	J	< 0.260	ND	0.260		U	< 0.42	ND	0.420		U	(e)	
	2058-94-8	PFUnA	< 0.170	ND	0.170		U	0.419		0.220	J	J	< 0.300	ND	0.300		U	< 0.220	ND	0.220		U	(e)	
	307-55-1	PFDoA	< 0.100	ND	0.100		U	0.273		0.130	J	U	< 0.210	ND	0.210		U	0.314		0.130	J	U	(e)	
	72629-94-8	PFTriA	< 0.140	ND	0.140	+	U	0.300		0.240	J	J	< 0.320	ND	0.320		U	< 0.240	ND	0.240		U	(e)	
	376-06-7	PFTeA	< 0.170	ND	0.170		U	< 0.290	ND	0.290		U	< 0.450	ND	0.450		U	< 0.29	ND	0.290		U	(e)	
	67905-19-5	PFHxDA	< 0.290	ND	0.290		U	< 0.180	ND	0.180		U	< 0.570	ND	0.570		U	< 0.180	ND	0.180		U	(e)	
	16517-11-6	PFODA	< 0.220	ND	0.220		U	< 0.160	ND	0.160		U	< 0.510	ND	0.510	*	UJ-	< 0.16	ND	0.160		U	(e)	
	PFSA	375-73-5	PFBS	< 0.890	ND	0.890		UJ-	2.080		0.500		J+/-	1.230		0.180	J	J-	2.400		0.500		J+/-	57.1
		2706-91-4	PFPeS	< 0.120	ND	0.120		U	< 0.058	ND	0.0580		U	< 0.240	ND	0.240		U	< 0.058	ND	0.0580		U	(e)
355-46-4		PFHxS	< 0.110	ND	0.110		U	< 0.130	ND	0.130		U	< 0.230	ND	0.230		U	< 0.130	ND	0.130		U	(e)	
375-92-8		PFHpS	< 0.110	ND	0.110		U	< 0.440	ND	0.440	+	U	< 0.460	ND	0.460		U	< 0.44	ND	0.440	+	U	(e)	
1763-23-1		PFOS	< 0.450	ND	0.450		U	0.547		0.330	J	U	0.369		0.260	J	J	0.488		0.330	J	U	(e)	
68259-12-1		PFNS	< 0.120	ND	0.120		U	< 0.140	ND	0.140	*	UJ-	< 0.150	ND	0.150		U	< 0.14	ND	0.140	*	UJ-	(e)	
335-77-3		PFDS	< 0.110	ND	0.110		U	< 0.320	ND	0.320	*	UJ-	< 0.330	ND	0.330		U	< 0.320	ND	0.320	*	UJ-	(e)	
79780-39-5		PFDoS	< 0.095	ND	0.0950		U	< 0.590	ND	0.590	+	U	< 0.320	ND	0.320		U	< 0.59	ND	0.590	+	U	(e)	
FOSA	754-91-6	FOSA	< 0.088	ND	0.0880		U	< 0.260	ND	0.260		U	< 0.230	ND	0.230		U	< 0.260	ND	0.260		U	(e)	
	31506-32-8	NMeFOSA	< 0.150	ND	0.150		U	< 0.350	ND	0.350		UJ-	< 0.340	ND	0.340		U	< 0.35	ND	0.350		U	(e)	
	4151-50-2	NEtFOSA	< 0.160	ND	0.160		U	< 0.320	ND	0.320		U	< 0.540	ND	0.540		U	< 0.320	ND	0.320		U	(e)	
FOSAA	2355-31-9	NMeFOSAA	< 0.120	ND	0.120		U	< 0.210	ND	0.210		U	< 0.410	ND	0.410		U	< 0.21	ND	0.210		U	(e)	
	2991-50-6	NEtFOSAA	< 0.140	ND	0.140		U	< 0.190	ND	0.190		U	< 0.300	ND	0.300		U	< 0.190	ND	0.190		U	(e)	
FOSE	24448-09-7	N-MeFOSE	< 4.900	ND	4.90		U	0.480		0.300	J	J	< 0.410	ND	0.410		U	< 0.3	ND	0.300		U	(e)	
	1691-99-2	N-EtFOSE	< 0.120	ND	0.120		U	< 0.390	ND	0.390		U	< 0.290	ND	0.290		U	< 0.390	ND	0.390		U	(e)	
FTS	757124-72-4	4:2 FTS	< 0.091	ND	0.0910		U	< 0.095	ND	0.0950		U	< 0.230	ND	0.230		U	< 0.095	ND	0.0950		U	(e)	
	27619-97-2	6:2 FTS	< 4.000	ND	4.00		U	< 0.250	ND	0.250		U	< 1.100	ND	1.10		U	< 0.250	ND	0.250		U	(e)	
	39108-34-4	8:2 FTS	< 0.140	ND	0.140		U	< 0.140	ND	0.140		U	< 0.520	ND	0.520		U	< 0.14	ND	0.140		U	(e)	
	120226-60-0	10:2 FTS	< 0.320	ND	0.320		U	< 0.230	ND	0.230		UJ-	< 0.430	ND	0.430		U	< 0.230	ND	0.230		U	(e)	
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	160.000		4.70			68.300		2.40			277.000		0.940			< 2.4	ND	2.40		U	(e)	
	919005-14-4	DONA	< 0.140	ND	0.140		U	< 1.100	ND	1.10	+	U	< 0.560	ND	0.560		U	< 1.100	ND	1.10	+	U	(e)	
	756426-58-1	9CI-PF3ONS	< 0.098	ND	0.0980		U	< 0.120	ND	0.120	*	UJ-	< 0.260	ND	0.260		U	< 0.12	ND	0.120	*	UJ-	(e)	
	763051-92-9	11CI-PF3OUdS	< 0.200	ND	0.200		U	< 0.360	ND	0.360	*	UJ-	< 0.280	ND	0.280		U	< 0.360	ND	0.360	*	UJ-	(e)	
Additional Targets	377-73-1	PFECa F	< 0.150	ND	0.150		U	< 0.570	ND	0.570		U	< 0.580	ND	0.580		U	< 0.57	ND	0.570		U	(e)	
	863090-89-5	PFECa A	< 0.200	ND	0.200		U	< 0.086	ND	0.0860		U	< 0.790	ND	0.790		U	< 0.086	ND	0.0860		U	(e)	
	151772-58-6	PFECa B	< 0.150	ND	0.150		U	0.297		0.190	J	J	3.330		0.580			< 0.19	ND	0.190		U	(e)	
	113507-82-7	PES	< 0.140	ND	0.140		U	< 0.088	ND	0.0880		U	< 0.510	ND	0.510		U	< 0.088	ND	0.0880		U	(e)	
	356-02-5	3:3 FTCA	< 0.290	ND	0.290		U	< 0.280	ND	0.280	+	U	< 0.880	ND	0.880	+	U	< 0.28	ND	0.280	+	U	(e)	
	914637-49-3	5:3 FTCA	< 0.480	ND	0.480		U	0.386		0.340	J +	J+	< 1.200	ND	1.20		U	< 0.340	ND	0.340	+	U	(e)	
	812-70-4	7:3 FTCA	< 0.350	ND	0.350		U	< 0.380	ND	0.380		U	< 0.790	ND	0.790		U	< 0.38	ND	0.380		U	(e)	
	70887-84-2	8:2 FTUCA	< 0.220	ND	0.220		U	< 0.130	ND	0.130		U	< 0.800	ND	0.800		U	< 0.130	ND	0.130		U	(e)	
	53826-13-4	10:2 FTCA	< 0.420	ND	0.420		U	< 0.930	ND	0.930	*1	UJ-	< 1.200	ND	1.20		U	< 0.93	ND	0.930	*1	U	(e)	
	27854-31-5	8:2 FTCA	< 0.350	ND	0.350		U	< 0.590	ND	0.590		U	< 1.300	ND	1.30		U	< 0.590	ND	0.590		U	(e)	
	53826-12-3	6:2FTCA	< 0.430	ND	0.430		U	< 0.720	ND	0.720		U	< 1.200	ND	1.20		U	< 0.72	ND	0.720		U	(e)	
	133201-07-7	PFECaHS	< 0.220	ND	0.220		U	< 0.210	ND	0.210		U	< 0.640	ND	0.640		U	< 0.210	ND	0.210		U	(e)	
70887-88-6	6:2 FTUCA	< 0.140	ND	0.140		U	< 0.100	ND	0.100		U	< 0.360	ND	0.360		U	< 0.1	ND	0.100		U	(e)		
	Subtotal: Non-detect		18.602					17.507					21.09							24.787				
	Subtotal: Detected		170.95					82.168					335.549							3.957				
	Grand Total		189.552					99.675					356.639							28.744				

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL, calculation not performed per OTM-45 Section 9.1.6

Gas Flow Rate 34,095 dscfm
Oxygen 9.47 % dry basis
Sample Vol. 134.585 dscf

Table A-1-17. OTM-45 Data Reduction - Run 1A

PFAS Category	CAS No. ^(a,b,c)	Acronym	Stack Gas Subtotal (ng/sample)	Stack Gas Subtotal (lb/hr)	Stack Gas Concentration (ng/dscm @ 7% O ₂)	Total Waste Feed & Fuel Inputs (lb/hr)	Spike Inputs (lb/hr)	Total Waste Feeds, Fuels, and Spikes (lb/hr)	Stack Gas Subtotal (lb/hr)	DRE ^(a,b) (%)	Minimum Analyte in Waste Feed + Fuel Required to Show 99.9999% DRE (lb/hr)	Spiked Compound? (Yes/No)	Is Waste Feed, Fuel, & Spike PFAS Input Rate Sufficient to Demonstrate DRE at Stack Gas Detection Limit?
PFOA	375-22-4	PFBA	< 17.800	< 5.96E-07	< 5.68	1.97E-02	5.08E-01	5.28E-01	< 5.96E-07	99.999887	3.18E-01	Yes	Yes
	2706-90-3	PFPeA	< 40.060	< 1.34E-06	< 12.78	2.46E-02	0.00E+00	2.46E-02	< 1.34E-06	99.994552	0.04256	No	No
	307-24-4	PFHxA	< 6.940	< 2.33E-07	< 2.21	7.28E-02	1.05E-01	1.78E-01	< 2.33E-07	99.999869	0.05730	Yes	Yes
	375-85-9	PFHpA	< 12.680	< 4.25E-07	< 4.05	2.72E-02	0.00E+00	2.72E-02	< 4.25E-07	99.998439	0.08311	No	No
	335-67-1	PFOA	< 3.120	< 1.05E-07	< 1.00	8.60E-02	9.55E-02	1.82E-01	< 1.05E-07	99.999942	0.04758	Yes	Yes
	375-95-1	PFNA	< 1.172	< 3.93E-08	< 0.37	8.15E-07	3.68E-02	3.68E-02	< 3.93E-08	99.999893	0.01558	Yes	Yes
	335-76-2	PFDA	< 1.134	< 3.80E-08	< 0.36	8.57E-10	5.21E-02	5.21E-02	< 3.80E-08	99.999927	0.03116	Yes	Yes
	2058-94-8	PFUnA	< 0.889	< 2.98E-08	< 0.28	5.94E-09	0.00E+00	5.94E-09	< 2.98E-08		0.02312	No	No
	307-55-1	PFDoA	< 0.583	< 1.95E-08	< 0.19	0.00E+00	0.00E+00	0.00E+00	< 1.95E-08		0.01474	No	No
	72629-94-8	PFTriA	< 0.760	< 2.55E-08	< 0.24	0.00E+00	0.00E+00	0.00E+00	< 2.55E-08		0.02346	No	No
	376-06-7	PFTeA	< 0.910	ND	< 3.05E-08	ND	< 0.29	ND	0.00E+00	ND	0.03049	No	No
	67905-19-5	PFHxDA	< 1.040	ND	< 3.49E-08	ND	< 0.33	ND	0.00E+00	ND	0.03485	No	No
	16517-11-6	PFODA	< 0.890	ND	< 2.98E-08	ND	< 0.28	ND	0.00E+00	ND	0.02982	No	No
	375-73-5	PFBS	< 6.600	< 2.21E-07	< 2.11	1.25E-01	7.27E-02	2.23E-01	< 2.21E-07	99.999901	0.05261	Yes	Yes
PFSA	2706-91-4	PFPeS	< 0.418	ND	< 1.40E-08	ND	< 0.13	ND	1.62E-01	ND	0.01401	No	Yes
	355-46-4	PFHxS	< 0.470	ND	< 1.57E-08	ND	< 0.15	ND	9.96E-01	ND	0.01575	Yes	Yes
	375-92-8	PFHpS	< 1.010	ND	< 3.38E-08	ND	< 0.32	ND	1.34E-01	ND	0.03385	No	Yes
	1763-23-1	PFOS	< 1.366	< 4.58E-08	< 0.44	5.45E+00	7.46E-02	5.52E+00	< 4.58E-08	99.999999	0.03485	Yes	Yes
	68259-12-1	PFNS	< 0.410	ND	< 1.37E-08	ND	< 0.13	ND	4.08E-03	ND	0.01374	No	No
	335-77-3	PFDS	< 0.760	ND	< 2.55E-08	ND	< 0.24	ND	3.05E-03	ND	0.02547	No	Yes
	79780-39-5	PFDoS	< 1.005	ND	< 3.37E-08	ND	< 0.32	ND	1.78E-03	ND	0.03368	No	No
	754-91-6	FOSA	< 0.578	ND	< 1.94E-08	ND	< 0.18	ND	1.22E-09	ND	0.01937	No	No
	31506-32-8	NMeFOSA	< 0.840	ND	< 2.81E-08	ND	< 0.27	ND	0.00E+00	ND	0.02815	No	No
	4151-50-2	NEtFOSA	< 1.020	ND	< 3.42E-08	ND	< 0.33	ND	0.00E+00	ND	0.03418	No	No
FOSA	2355-31-9	NMeFOSAA	< 0.740	ND	< 2.48E-08	ND	< 0.24	ND	0.00E+00	ND	0.02480	No	No
	2991-50-6	NEtFOSAA	< 0.630	ND	< 2.11E-08	ND	< 0.20	ND	1.63E-06	ND	0.02111	No	No
FOSE	24448-09-7	N-MeFOSE	< 5.790	< 1.94E-07	< 1.85	8.45E-06	0.00E+00	8.45E-06	< 1.94E-07		0.18799	No	No
	1691-99-2	N-EtFOSE	< 0.800	ND	< 2.68E-08	ND	< 0.26	ND	9.89E-07	ND	0.02681	No	No
FTS	757124-72-4	4:2 FTS	< 0.416	ND	< 1.39E-08	ND	< 0.13	ND	0.00E+00	ND	0.01394	No	No
	27619-97-2	6:2 FTS	< 5.350	ND	< 1.79E-07	ND	< 1.71	ND	2.80E-06	ND	0.17928	No	No
	39108-34-4	8:2 FTS	< 0.800	ND	< 2.68E-08	ND	< 0.26	ND	9.60E-08	ND	0.02681	No	No
	120226-60-0	10:2 FTS	< 0.980	ND	< 3.28E-08	ND	< 0.31	ND	0.00E+00	ND	0.03284	No	No
	13252-13-6	HFPO-DA	< 505.300	< 1.69E-05	< 161.24	1.93E-07	6.32E-01	6.32E-01	< 1.69E-05	99.997319	0.26942	Yes	Yes
Fluorinated Replacement Chemicals	919005-14-4	DONA	< 1.800	ND	< 6.03E-08	ND	< 0.57	ND	0.00E+00	ND	0.06032	No	No
	756426-58-1	9CI-PF3ONS	< 0.478	ND	< 1.60E-08	ND	< 0.15	ND	0.00E+00	ND	0.01602	No	No
	763051-92-9	11CI-PF3OUDS	< 0.840	ND	< 2.81E-08	ND	< 0.27	ND	0.00E+00	ND	0.02815	No	No
	377-73-1	PFECa F	< 1.300	ND	< 4.36E-08	ND	< 0.41	ND	4.81E-07	ND	0.04356	No	No
Additional Targets	863090-89-5	PFECa A	< 1.076	ND	< 3.61E-08	ND	< 0.34	ND	1.90E-09	ND	0.03606	No	No
	151772-58-6	PFECa B	< 3.777	< 1.27E-07	< 1.21	0.00E+00	0.00E+00	0.00E+00	< 1.27E-07		0.03083	No	No
	113507-82-7	PES	< 0.738	ND	< 2.47E-08	ND	< 0.24	ND	0.00E+00	ND	0.02473	No	No
	356-02-5	3:3 FTCA	< 1.450	ND	< 4.86E-08	ND	< 0.46	ND	0.00E+00	ND	0.04859	No	No
	914637-49-3	5:3 FTCA	< 2.066	< 6.92E-08	< 0.66	5.38E-06	0.00E+00	5.38E-06	< 6.92E-08		0.06769	No	No
	812-70-4	7:3 FTCA	< 1.520	ND	< 5.09E-08	ND	< 0.49	ND	0.00E+00	ND	0.05094	No	No
	70887-84-2	8:2 FTUCA	< 1.150	ND	< 3.85E-08	ND	< 0.37	ND	0.00E+00	ND	0.03854	No	No
	53826-13-4	10:2 FTUCA	< 2.550	ND	< 8.55E-08	ND	< 0.81	ND	0.00E+00	ND	0.08545	No	No
	27854-31-5	8:2 FTCA	< 2.240	ND	< 7.51E-08	ND	< 0.71	ND	0.00E+00	ND	0.07506	No	No
	53826-12-3	6:2FTCA	< 2.350	ND	< 7.87E-08	ND	< 0.75	ND	0.00E+00	ND	0.07875	No	No
	133201-07-7	PFECHS	< 1.070	ND	< 3.59E-08	ND	< 0.34	ND	0.00E+00	ND	0.03586	No	No
	70887-88-6	6:2 FTUCA	< 0.600	ND	< 2.01E-08	ND	< 0.19	ND	0.00E+00	ND	0.02011	No	No
	Subtotal: Non-detect		38.229	1.28E-06	12.199				1.28E-06				
	Subtotal: Detected		610.037	2.04E-05	194.663				2.04E-05				
Grand Total			648.266	2.17E-05	206.862	7.07E+00	1.64E+00	8.70E+00	2.17E-05	99.999750			

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL, calculation not performed per OTM-45 Section 9.1.6

Gas Flow Rate 34,095 dscfm

Oxygen 9.47 % dry basis

Sample Vol. 134.585 dscf

Table A-1-18. OTM-45 Data Reduction - Run 2A

PFAS Category	CAS No. (a,b,c)	Acronym	S-2008,2009 R2A OTM-45 FH					S-2010,2011 R2A OTM-45 BH					S-2012,2013 R2A OTM-45 CONDENSATE,IMPINGER SOLVENT RINSE					S-2014 R2A OTM-45 BT XAD					Break ^(d) Through Check (%)
			Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	
PFCA	375-22-4	PFBA	< 1.300	ND	1.30	H	U	< 7.100	ND	7.10	H	U	6.300		0.550	H B	U	< 7.100	ND	7.10		U	(e)
	2706-90-3	PFPeA	0.264		0.180	J H	U	0.985		0.830	J H	U	24.700		0.130	H	J	< 0.830	ND	0.830		U	(e)
	307-24-4	PFHxA	0.397		0.210	J H B	U	0.779		0.740	J H	J	0.873		0.380	J H	J	< 0.74	ND	0.740		U	(e)
	375-85-9	PFHpA	< 3.100	ND	3.10		U	3.970		1.60	H	U	6.960		0.130	H	U	< 1.600	ND	1.60		U	(e)
	335-67-1	PFOA	< 0.650	ND	0.650	H	U	3.160		0.390	H	U	0.876		0.190	J H	J	< 0.39	ND	0.390		U	(e)
	375-95-1	PFNA	1.510		0.0850	H		16.100		0.170	H		5.750		0.105	H	J	< 0.170	ND	0.170		U	(e)
	335-76-2	PFDA	< 0.250	ND	0.250	H	U	0.517		0.420	J H	J	0.324		0.130	J H	U	< 0.42	ND	0.420		U	(e)
	2058-94-8	PFUnA	0.335		0.170	J H	U	20.600		0.220	H		22.400		0.150	H		0.245			J	J	(e)
	307-55-1	PFDoA	< 0.100	ND	0.100	H	UJ-	0.767		0.130	J H	U	0.560		0.105	J H	U	0.308		0.130	J	UJ-	(e)
	72629-94-8	PFTriA	0.451		0.140	J H *	U	33.600		0.240	H		26.400		0.160	H	J	< 0.240	ND	0.240		U	(e)
	376-06-7	PFTeA	< 0.170	ND	0.170	H	U	0.956		0.290	J H	U	0.704		0.225	J H	U	< 0.29	ND	0.290		U	(e)
	67905-19-5	PFHxDA	< 0.290	ND	0.290	H	U	0.643		0.180	J H	U	0.457		0.285	J H	J	< 0.180	ND	0.180		U	(e)
	16517-11-6	PFODA	< 0.220	ND	0.220	H	U	0.191		0.160	J H	J	< 0.255	ND	0.255	H	UJ-	< 0.16	ND	0.160		U	(e)
	375-73-5	PFBS	< 0.890	ND	0.890	H	U	2.270		0.500	H	U	0.260		0.0900	J H	U	2.230		0.500	J+/-	65.205	
	2706-91-4	PFPeS	< 0.120	ND	0.120	H	U	< 0.058	ND	0.0580	H	U	< 0.120	ND	0.120	H	U	< 0.058	ND	0.0580		U	(e)
PFSA	355-46-4	PFHxS	< 0.110	ND	0.110	H	U	< 0.130	ND	0.130	H	U	< 0.115	ND	0.115	H	U	< 0.130	ND	0.130		U	(e)
	375-92-8	PFHpS	< 0.110	ND	0.110	H	U	< 0.440	ND	0.440	H *	U	< 0.230	ND	0.230	H	U	< 0.44	ND	0.440	*	U	(e)
	1763-23-1	PFOS	0.857		0.450	J H	J	0.493		0.330	J H	U	< 0.130	ND	0.130	H	U	0.604		0.330	J	UJ	(e)
	68259-12-1	PFNS	< 0.120	ND	0.120	H	U	< 0.140	ND	0.140	H *	UJ-	< 0.075	ND	0.0750	H	U	< 0.14	ND	0.140	*	UJ-	(e)
	335-77-3	PFDS	< 0.110	ND	0.110	H	U	< 0.320	ND	0.320	H *	UJ-	< 0.165	ND	0.165	H	U	< 0.320	ND	0.320	*	UJ-	(e)
	79780-39-5	PFDoS	< 0.095	ND	0.0950	H	U	< 0.590	ND	0.590	H *	U	< 0.160	ND	0.160	H	U	< 0.59	ND	0.590	*	U	(e)
	754-91-6	FOSA	< 0.088	ND	0.0880	H	U	< 0.260	ND	0.260	H	U	< 0.115	ND	0.115	H	U	< 0.260	ND	0.260		U	(e)
FOSA	31506-32-8	NMeFOSA	< 0.150	ND	0.150	H	U	< 0.350	ND	0.350	H	U	< 0.170	ND	0.170	H	U	< 0.35	ND	0.350		U	(e)
	4151-50-2	NEtFOSA	< 0.160	ND	0.160	H	U	< 0.320	ND	0.320	H	U	< 0.270	ND	0.270	H	U	< 0.320	ND	0.320		U	(e)
FOSAA	2355-31-9	NMeFOSAA	< 0.120	ND	0.120	H	U	< 0.210	ND	0.210	H	U	< 0.205	ND	0.205	H	U	< 0.21	ND	0.210		U	(e)
	2991-50-6	NEtFOSAA	< 0.140	ND	0.140	H	U	< 0.190	ND	0.190	H	U	< 0.150	ND	0.150	H	U	< 0.190	ND	0.190		U	(e)
FOSE	24448-09-7	N-MeFOSE	< 4.900	ND	4.90	H	U	< 0.300	ND	0.300	H	U	0.415		0.205	J H	U	< 0.3	ND	0.300		U	(e)
	1691-99-2	N-EtFOSE	< 0.120	ND	0.120	H	U	< 0.390	ND	0.390	H	U	< 0.145	ND	0.145	H	U	< 0.390	ND	0.390		U	(e)
FTS	757124-72-4	4:2 FTS	< 0.091	ND	0.0910	H	U	< 0.095	ND	0.0950	H	U	< 0.115	ND	0.115	H	U	< 0.095	ND	0.0950		U	(e)
	27619-97-2	6:2 FTS	< 4.000	ND	4.00	H	U	< 0.250	ND	0.250	H	U	< 0.550	ND	0.550	H	U	< 0.250	ND	0.250		U	(e)
	39108-34-4	8:2 FTS	< 0.140	ND	0.140	H	U	< 0.140	ND	0.140	H	U	< 0.260	ND	0.260	H	U	< 0.14	ND	0.140		U	(e)
	120226-60-0	10:2 FTS	< 0.320	ND	0.320	H	U	< 0.230	ND	0.230	H	U	< 0.215	ND	0.215	H	U	< 0.230	ND	0.230		U	(e)
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	694.000		23.5		J	1400.000		48.0		J	6180.000		23.5			16.6		2.40			0.201
	919005-14-4	DONA	< 0.140	ND	0.140	H	U	< 1.100	ND	1.10	H *	U	< 0.280	ND	0.280	H	U	< 1.100	ND	1.10	*	U	(e)
	756426-58-1	9Cl-PF3ONS	< 0.098	ND	0.0980	H	U	< 0.120	ND	0.120	H *	UJ-	< 0.130	ND	0.130	H	U	< 0.12	ND	0.120	*	UJ-	(e)
	763051-92-9	11Cl-PF3OUDS	< 0.200	ND	0.200	H	U	< 0.360	ND	0.360	H *	UJ-	< 0.140	ND	0.140	H	U	< 0.360	ND	0.360	*	UJ-	(e)
Additional Targets	377-73-1	PFECa F	< 0.150	ND	0.150	H	U	< 0.570	ND	0.570	H	U	< 0.290	ND	0.290	H	U	< 0.57	ND	0.570		U	(e)
	863090-89-5	PFECa A	< 0.200	ND	0.200	H	U	< 0.086	ND	0.0860	H	U	< 0.395	ND	0.395	H	U	< 0.086	ND	0.0860		U	(e)
	151772-58-6	PFECa B	< 0.150	ND	0.150	H	U	< 0.190	ND	0.190	H	U	< 0.290	ND	0.290	H	U	< 0.19	ND	0.190		U	(e)
	113507-82-7	PES	< 0.140	ND	0.140	H	U	< 0.088	ND	0.0880	H	U	< 0.255	ND	0.255	H	U	< 0.088	ND	0.0880		U	(e)
	356-02-5	3:3 FTCA	< 0.290	ND	0.290	H	U	< 0.280	ND	0.280	H *	U	< 0.440	ND	0.440	H *	U	< 0.28	ND	0.280	*	U	(e)
	914637-49-3	5:3 FTCA	< 0.480	ND	0.480	H	U	0.752		0.340	J H *	J+	< 0.600	ND	0.600	H	U	< 0.340	ND	0.340	*	U	(e)
	812-70-4	7:3 FTCA	< 0.350	ND	0.350	H	U	< 0.380	ND	0.380	H	U	< 0.395	ND	0.395	H	U	< 0.38	ND	0.380		U	(e)
	70887-84-2	8:2 FTUCA	< 0.220	ND	0.220	H	U	< 0.130	ND	0.130	H	U	< 0.400	ND	0.400	H	U	< 0.130	ND	0.130		U	(e)
	53826-13-4	10:2 FTCA	< 0.420	ND	0.420	H	U	< 0.930	ND	0.930	H *	U	< 0.600	ND	0.600	H	U	< 0.93	ND	0.930	*1	UJ-	(e)
	27854-31-5	8:2 FTCA	< 0.350	ND	0.350	H	U	< 0.590	ND	0.590	H	U	< 0.650	ND	0.650	H	U	< 0.590	ND	0.590		U	(e)
	53826-12-3	6:2FTCA	< 0.430	ND	0.430	H	U	< 0.720	ND	0.720	H	U	< 0.600	ND	0.600	H	U	< 0.72	ND	0.720		U	(e)
	133201-07-7	PFECBS	< 0.220	ND	0.220	H	U	< 0.210	ND	0.210	H	U	< 0.320	ND	0.320	H	U	< 0.210	ND	0.210		U	(e)
	70887-88-6	6:2 FTUCA	< 0.140	ND	0.140	H	U	< 0.100	ND	0.100	H	U	< 0.180	ND	0.180	H	U	< 0.1	ND	0.100		U	(e)
	Subtotal: Non-detect		21.842					17.367					9.41					22.727					
	Subtotal: Detected		697.814					1485.783					6276.979					19.987					
	Grand Total		719.656					1503.15					6286.389					42.714					

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL, calculation not performed per OTM-45 Section 9.1.6

Gas Flow Rate 32,101 dscfm
 Oxygen 9.24 % dry basis
 Sample Vol. 131.673 dscf

Table A-1-18. OTM-45 Data Reduction - Run 2A

PFAS Category	CAS No. ^[a,b,c]	Acronym	Stack Gas Subtotal (ng/sample)	Stack Gas Subtotal (lb/hr)	Stack Gas Concentration (ng/dscm @ 7% O ₂)	Total Waste Feed & Fuel Inputs		Total Waste Feeds, Fuels, and Spikes		Stack Gas Subtotal (lb/hr)	DRE ^[a,b] (%)	Minimum Analyte in Waste Feed + Fuel Required to Show 99.9999% DRE	Spiked Compound? (Yes/No)	Is Waste Feed, Fuel, & Spike PFAS Input Rate Sufficient to Demonstrate DRE at Stack Gas Detection Limit?					
						(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)					>99.9999%	>99.999%	>99.99%			
PFCA	375-22-4	PFBA	< 14.700	< 4.74E-07	< 4.70	1.99E-02	4.44E-01	4.64E-01	< 4.74E-07	99.999898	0.28862		Yes	Yes	Yes				
	2706-90-3	PFPeA	< 25.949	< 8.37E-07	< 8.30	2.50E-02	0.00E+00	2.50E-02	< 8.37E-07	99.996657	0.03676	No	No	Yes	Yes				
	307-24-4	PFHxA	< 2.049	< 6.61E-08	< 0.66	6.21E-02	9.22E-02	1.54E-01	< 6.61E-08	99.999957	0.04289	Yes	Yes	Yes	Yes				
	375-85-9	PFHpA	< 14.030	< 4.52E-07	< 4.49	2.61E-02	0.00E+00	2.61E-02	< 4.52E-07	99.998268	0.15576	No	No	Yes	Yes				
	335-67-1	PFOA	< 4.686	< 1.51E-07	< 1.50	9.05E-02	8.35E-02	1.74E-01	< 1.51E-07	99.999913	0.03967	Yes	Yes	Yes	Yes				
	375-95-1	PFNA	< 23.360	< 7.53E-07	< 7.47	2.52E-07	3.22E-02	3.22E-02	< 7.53E-07	99.997660	0.01161	Yes	Yes	Yes	Yes				
	335-76-2	PFDA	< 1.091	< 3.52E-08	< 0.35	3.02E-09	4.56E-02	4.56E-02	< 3.52E-08	99.999923	0.02580	Yes	Yes	Yes	Yes				
	2058-94-8	PFUnA	43.335	1.40E-06	13.86	0.00E+00	0.00E+00	0.00E+00	1.40E-06		0.01741	No	No	No	No				
	307-55-1	PFDoA	< 1.427	< 4.60E-08	< 0.46	0.00E+00	0.00E+00	0.00E+00	< 4.60E-08		0.01080	No	No	No	No				
	72629-94-8	PFTriA	< 60.451	< 1.95E-06	< 19.33	0.00E+00	0.00E+00	0.00E+00	< 1.95E-06		0.01741	No	No	No	No				
	376-06-7	PFTeA	< 1.830	< 5.90E-08	< 0.59	0.00E+00	0.00E+00	0.00E+00	< 5.90E-08		0.02209	No	No	No	No				
	67905-19-5	PFHxDA	< 1.390	< 4.48E-08	< 0.44	0.00E+00	0.00E+00	0.00E+00	< 4.48E-08		0.02435	No	No	No	No				
	16517-11-6	PFODA	< 0.666	< 2.15E-08	< 0.21	0.00E+00	0.00E+00	0.00E+00	< 2.15E-08		0.02048	No	No	No	No				
	375-73-5	PFBS	< 5.650	< 1.82E-07	< 1.81	1.18E-01	8.54E-02	2.03E-01	< 1.82E-07	99.999910	0.04773	Yes	Yes	Yes	Yes				
PFSA	2706-91-4	PFPeS	< 0.298	ND	< 9.61E-09	ND	< 0.10	ND	1.65E-01	0.00E+00	1.65E-01	< 9.61E-09	ND	99.999994	0.00961	No	Yes	Yes	Yes
	355-46-4	PFHxS	< 0.355	ND	< 1.14E-08	ND	< 0.11	ND	9.89E-01	3.12E-02	1.02E+00	< 1.14E-08	ND	99.999999	0.01145	Yes	Yes	Yes	Yes
	375-92-8	PFHpS	< 0.780	ND	< 2.52E-08	ND	< 0.25	ND	1.20E-01	0.00E+00	1.20E-01	< 2.52E-08	ND	99.999979	0.02515	No	Yes	Yes	Yes
	1763-23-1	PFOS	< 1.480	< 4.77E-08	< 0.47	5.01E+00	6.52E-02	5.08E+00	< 4.77E-08	99.999999	0.02935	Yes	Yes	Yes	Yes				
	68259-12-1	PFNS	< 0.335	ND	< 1.08E-08	ND	< 0.11	ND	4.96E-03	0.00E+00	4.96E-03	< 1.08E-08	ND	99.999782	0.01080	No	No	Yes	Yes
	335-77-3	PFDS	< 0.595	ND	< 1.92E-08	ND	< 0.19	ND	3.06E-03	0.00E+00	3.06E-03	< 1.92E-08	ND	99.999373	0.01919	No	No	Yes	Yes
	79780-39-5	PFDoS	< 0.845	ND	< 2.72E-08	ND	< 0.27	ND	1.28E-03	0.00E+00	1.28E-03	< 2.72E-08	ND	99.997866	0.02725	No	No	No	Yes
FOSA	754-91-6	FOSA	< 0.463	ND	< 1.49E-08	ND	< 0.15	ND	0.00E+00	0.00E+00	0.00E+00	< 1.49E-08	ND		0.01493	No	No	No	No
	31506-32-8	NMeFOSA	< 0.670	ND	< 2.16E-08	ND	< 0.21	ND	0.00E+00	0.00E+00	0.00E+00	< 2.16E-08	ND		0.02161	No	No	No	No
	4151-50-2	NEtFOSA	< 0.750	ND	< 2.42E-08	ND	< 0.24	ND	0.00E+00	0.00E+00	0.00E+00	< 2.42E-08	ND		0.02419	No	No	No	No
FOSAA	2355-31-9	NMeFOSAA	< 0.535	ND	< 1.73E-08	ND	< 0.17	ND	0.00E+00	0.00E+00	0.00E+00	< 1.73E-08	ND		0.01725	No	No	No	No
	2991-50-6	NEtFOSAA	< 0.480	ND	< 1.55E-08	ND	< 0.15	ND	0.00E+00	0.00E+00	0.00E+00	< 1.55E-08	ND		0.01548	No	No	No	No
FOSE	24448-09-7	N-MeFOSE	< 5.615	< 1.81E-07	< 1.80	4.66E-06	0.00E+00	4.66E-06	< 1.81E-07		0.17430	No	No	No	No				
	1691-99-2	N-EtFOSE	< 0.655	ND	< 2.11E-08	ND	< 0.21	ND	7.72E-07	0.00E+00	7.72E-07	< 2.11E-08	ND		0.02112	No	No	No	No
FTS	757124-72-4	4:2 FTS	< 0.301	ND	< 9.71E-09	ND	< 0.10	ND	0.00E+00	0.00E+00	0.00E+00	< 9.71E-09	ND		0.00971	No	No	No	No
	27619-97-2	6:2 FTS	< 4.800	ND	< 1.55E-07	ND	< 1.53	ND	2.94E-06	0.00E+00	2.94E-06	< 1.55E-07	ND		0.15479	No	No	No	No
	39108-34-4	8:2 FTS	< 0.540	ND	< 1.74E-08	ND	< 0.17	ND	1.39E-08	0.00E+00	1.39E-08	< 1.74E-08	ND		0.01741	No	No	No	No
	120226-60-0	10:2 FTS	< 0.765	ND	< 2.47E-08	ND	< 0.24	ND	0.00E+00	0.00E+00	0.00E+00	< 2.47E-08	ND		0.02467	No	No	No	No
Fluorinated Replacement Chemicals	13252-13-6	HPFO-DA	8274.000	2.67E-04	2645.40	2.69E-07	5.52E-01	5.52E-01	2.67E-04	99.951677	3.06359	Yes	No	Yes	Yes				
	919005-14-4	DONA	< 1.520	ND	< 4.90E-08	ND	< 0.49	ND	0.00E+00	0.00E+00	0.00E+00	< 4.90E-08	ND		0.04902	No	No	No	No
	756426-58-1	9CI-PF3ONS	< 0.348	ND	< 1.12E-08	ND	< 0.11	ND	0.00E+00	0.00E+00	0.00E+00	< 1.12E-08	ND		0.01122	No	No	No	No
	763051-92-9	11CI-PF3OUdS	< 0.700	ND	< 2.26E-08	ND	< 0.22	ND	0.00E+00	0.00E+00	0.00E+00	< 2.26E-08	ND		0.02257	No	No	No	No
	377-73-1	PFECA F	< 1.010	ND	< 3.26E-08	ND	< 0.32	ND	4.56E-07	0.00E+00	4.56E-07	< 3.26E-08	ND		0.03257	No	No	No	No
	863090-89-5	PFECA A	< 0.681	ND	< 2.20E-08	ND	< 0.22	ND	0.00E+00	0.00E+00	0.00E+00	< 2.20E-08	ND		0.02196	No	No	No	No
	151772-58-6	PFECA B	< 0.630	ND	< 2.03E-08	ND	< 0.20	ND	0.00E+00	0.00E+00	0.00E+00	< 2.03E-08	ND		0.02032	No	No	No	No
	113507-82-7	PES	< 0.483	ND	< 1.56E-08	ND	< 0.15	ND	0.00E+00	0.00E+00	0.00E+00	< 1.56E-08	ND		0.01558	No	No	No	No
	356-02-5	3:3 FTCA	< 1.010	ND	< 3.26E-08	ND	< 0.32	ND	6.73E-07	0.00E+00	6.73E-07	< 3.26E-08	ND		0.03257	No	No	No	No
	914637-49-3	5:3 FTCA	< 1.832	< 5.91E-08	< 0.59	4.70E-06	0.00E+00	4.70E-06	< 5.91E-08		0.04579	No	No	No	No				
	812-70-4	7:3 FTCA	< 1.125	ND	< 3.63E-08	ND	< 0.36	ND	0.00E+00	0.00E+00	0.00E+00	< 3.63E-08	ND		0.03628	No	No	No	No
	70887-84-2	8:2 FTUCA	< 0.750	ND	< 2.42E-08	ND	< 0.24	ND	0.00E+00	0.00E+00	0.00E+00	< 2.42E-08	ND		0.02419	No	No	No	No
	53826-13-4	10:2 FTCA	< 1.950	ND	< 6.29E-08	ND	< 0.62	ND	0.00E+00	0.00E+00	0.00E+00	< 6.29E-08	ND		0.06288	No	No	No	No
Additional Targets	27854-31-5	8:2 FTCA	< 1.590	ND	< 5.13E-08	ND	< 0.51	ND	0.00E+00	0.00E+00	0.00E+00	< 5.13E-08	ND		0.05127	No	No	No	No
	53826-12-3	6:2 FTCA	< 1.750	ND	< 5.64E-08	ND	< 0.56	ND	0.00E+00	0.00E+00	0.00E+00	< 5.64E-08	ND		0.05643	No	No	No	No
	133201-07-7	PFECHS	< 0.750	ND	< 2.42E-08	ND	< 0.24	ND	0.00E+00	0.00E+00	0.00E+00	< 2.42E-08	ND		0.02419	No	No	No	No
	70887-88-6	6:2 FTUCA	< 0.420	ND	< 1.35E-08	ND	< 0.13	ND	0.00E+00	0.00E+00	0.00E+00	< 1.35E-08	ND		0.01354	No	No	No	No
	Subtotal: Non-detect		27.884	8.99E-07	8.915				8.99E-07										
	Subtotal: Detected		8483.541	2.74E-04	2712.390				2.74E-04										
	Grand Total		8511.425	2.74E-04	2721.306	6.64E+00	1.43E+00	8.07E+00	2.74E-04	99.996599									

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL calculation
not performed per OTM-45 Section 9.1.6Gas Flow Rate 32,101 dscfm
Oxygen 9.24 % dry basis
Sample Vol. 131.673 dscf

Table A-1-19. OTM-45 Data Reduction - Run 3A

PFAS Category	CAS No. (a,b,c)	Acronym	S-2015,2016 R3A OTM-45 FH					S-2017,2018 R3A OTM-45 BH					S-2019,2020 R3A OTM-45 CONDENSATE,IMPINGER SOLVENT RINSE					S-2021 R3A OTM-45 BT XAD					Break ^(d) Through Check (%)
			Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	ND	MDL (ng/sample)	Lab Flag	DV Flag	
PFCA	375-22-4	PFBA	< 2.600	ND	2.60		U	< 7.100	ND	7.10		U	< 3.100		0.550	B		< 7.100	ND	7.10		U	(e)
	2706-90-3	PFPeA	0.728		0.360	J	J	< 0.830	ND	0.830		U	5.770		0.130			< 0.830	ND	0.830		U	(e)
	307-24-4	PFHxA	< 0.420	ND	0.420		U	< 0.740	ND	0.740		U	1.120		0.380			< 0.74	ND	0.740		U	(e)
	375-85-9	PFHpA	< 1.240	ND	1.24		U	< 1.600	ND	1.60		U	2.170		0.130			< 1.600	ND	1.60		U	(e)
	335-67-1	PFOA	< 1.300	ND	1.30		U	0.590		0.390	J	U	0.474		0.190	J	J	< 0.39	ND	0.390		U	(e)
	375-95-1	PFNA	< 0.170	ND	0.170		U	< 0.170	ND	0.170		U	0.384		0.105	J	J	< 0.170	ND	0.170		U	(e)
	335-76-2	PFDA	< 0.500	ND	0.500		U	< 0.420	ND	0.420		U	< 0.130	ND	0.130		U	< 0.42	ND	0.420		U	(e)
	2058-94-8	PFUnA	< 0.340	ND	0.340		U	< 0.220	ND	0.220		U	< 0.150	ND	0.150		U	< 0.220	ND	0.220		U	(e)
	307-55-1	PFDoA	< 0.200	ND	0.200		U	0.309		0.130	J	U	< 0.105	ND	0.105		U	0.253		0.130	J	U	(e)
	72629-94-8	PFTriA	< 0.280	ND	0.280	*+	U	< 0.240	ND	0.240		U	< 0.160	ND	0.160		U	< 0.240	ND	0.240		U	(e)
	376-06-7	PFTeA	< 0.340	ND	0.340		U	< 0.290	ND	0.290		U	< 0.225	ND	0.225		U	< 0.29	ND	0.290		U	(e)
	67905-19-5	PFHxDA	< 0.580	ND	0.580		U	< 0.180	ND	0.180		U	< 0.285	ND	0.285		U	< 0.180	ND	0.180		U	(e)
16517-11-6	PFODA	< 0.440	ND	0.440		U	< 0.160	ND	0.160		U	< 0.255	ND	0.255	*-	UJ-	< 0.16	ND	0.160		U	(e)	
PFSA	375-73-5	PFBS	< 1.780	ND	1.78		U	2.330		0.500	J+/-	U	0.696		0.0900	J	J	2.180		0.500	J+/-	45.360	
	2706-91-4	PFPeS	< 0.240	ND	0.240		U	< 0.058	ND	0.0580		U	< 0.120	ND	0.120		U	< 0.058	ND	0.0580		U	(e)
	355-46-4	PFHxS	< 0.220	ND	0.220		U	< 0.130	ND	0.130		U	< 0.115	ND	0.115		U	< 0.130	ND	0.130		U	(e)
	375-92-8	PFHpS	< 0.220	ND	0.220		U	< 0.440	ND	0.440	*+	U	< 0.230	ND	0.230		U	< 0.44	ND	0.440	*+	U	(e)
	1763-23-1	PFOS	< 0.900	ND	0.900		U	0.660		0.330	J	U	0.172		0.130	J	J	0.440		0.330	J	U	(e)
	68259-12-1	PFNS	< 0.240	ND	0.240		U	< 0.140	ND	0.140	*-	UJ-	< 0.075	ND	0.0750		U	< 0.14	ND	0.140	*-	UJ-	(e)
	335-77-3	PFDS	< 0.220	ND	0.220		U	< 0.320	ND	0.320	*-	UJ-	< 0.165	ND	0.165		U	< 0.320	ND	0.320	*-	UJ-	(e)
	79780-39-5	PFDoS	< 0.190	ND	0.190		U	< 0.590	ND	0.590	*+	U	< 0.160	ND	0.160		U	< 0.59	ND	0.590	*+	U	(e)
FOSA	754-91-6	FOSA	< 0.176	ND	0.176		U	< 0.260	ND	0.260		U	< 0.115	ND	0.115		U	< 0.260	ND	0.260		U	(e)
	31506-32-8	NMeFOSA	< 0.300	ND	0.300		U	< 0.350	ND	0.350		U	< 0.170	ND	0.170		U	< 0.35	ND	0.350		U	(e)
FOSAA	4151-50-2	NEtFOSA	< 0.320	ND	0.320		U	< 0.320	ND	0.320	UJ-	U	< 0.270	ND	0.270		U	< 0.320	ND	0.320		U	(e)
	2355-31-9	NMeFOSAA	< 0.240	ND	0.240		U	< 0.210	ND	0.210		U	< 0.205	ND	0.205		U	< 0.21	ND	0.210		U	(e)
FOSE	2991-50-6	NEtFOSAA	< 0.280	ND	0.280		U	< 0.190	ND	0.190		U	< 0.150	ND	0.150		U	< 0.190	ND	0.190		U	(e)
	24448-09-7	N-MeFOSE	< 9.800	ND	9.80		U	< 0.300	ND	0.300		U	< 0.205	ND	0.205		U	< 0.3	ND	0.300		U	(e)
FTS	1691-99-2	N-EtFOSE	< 0.240	ND	0.240		U	< 0.390	ND	0.390		U	< 0.145	ND	0.145		U	< 0.390	ND	0.390		U	(e)
	757124-72-4	4:2 FTS	< 0.182	ND	0.182		U	< 0.095	ND	0.0950		U	< 0.115	ND	0.115		U	< 0.095	ND	0.0950		U	(e)
	27619-97-2	6:2 FTS	< 8.000	ND	8.00		U	< 0.250	ND	0.250		U	< 0.550	ND	0.550		U	< 0.250	ND	0.250		U	(e)
	39108-34-4	8:2 FTS	< 0.280	ND	0.280		U	< 0.140	ND	0.140		U	< 0.260	ND	0.260		U	< 0.14	ND	0.140		U	(e)
	120226-60-0	10:2 FTS	< 0.640	ND	0.640		U	< 0.230	ND	0.230		U	< 0.215	ND	0.215		U	< 0.230	ND	0.230		U	(e)
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	221.000		9.40			25.900		2.40			155.000		0.470			< 2.4	ND	2.40		U	(e)
	919005-14-4	DONA	< 0.280	ND	0.280		U	< 1.100	ND	1.10	*+	U	< 0.280	ND	0.280		U	< 1.100	ND	1.10	*+	U	(e)
	756426-58-1	9CI-PF3ONS	< 0.196	ND	0.196		U	< 0.120	ND	0.120	*-	UJ-	< 0.130	ND	0.130		U	< 0.12	ND	0.120	*-	UJ-	(e)
	763051-92-9	11CI-PF3OUdS	< 0.400	ND	0.400		U	< 0.360	ND	0.360	*-	UJ-	< 0.140	ND	0.140		U	< 0.360	ND	0.360	*-	UJ-	(e)
Additional Targets	377-73-1	PFECA F	< 0.300	ND	0.300		U	< 0.570	ND	0.570		U	< 0.290	ND	0.290		U	< 0.57	ND	0.570		U	(e)
	863090-89-5	PFECA A	< 0.400	ND	0.400		U	< 0.086	ND	0.0860		U	< 0.395	ND	0.395		U	< 0.086	ND	0.0860		U	(e)
	151772-58-6	PFECA B	< 0.300	ND	0.300		U	< 0.190	ND	0.190		U	< 0.290	ND	0.290		U	< 0.19	ND	0.190		U	(e)
	113507-82-7	PES	< 0.280	ND	0.280		U	< 0.088	ND	0.0880		U	< 0.255	ND	0.255		U	< 0.088	ND	0.0880		U	(e)
	356-02-5	3:3 FTCA	< 0.580	ND	0.580		U	< 0.280	ND	0.280	*+	U	< 0.440	ND	0.440	*+	U	< 0.28	ND	0.280	*+	U	(e)
	914637-49-3	5:3 FTCA	< 0.960	ND	0.960		U	0.479		0.340	J	J	< 0.600	ND	0.600		U	< 0.340	ND	0.340	*+	U	(e)
	812-70-4	7:3 FTCA	< 0.700	ND	0.700		U	< 0.380	ND	0.380		U	< 0.395	ND	0.395		U	< 0.38	ND	0.380		U	(e)
	70887-84-2	8:2 FTUCA	< 0.440	ND	0.440		U	< 0.130	ND	0.130		U	< 0.400	ND	0.400		U	< 0.130	ND	0.130		U	(e)
	53826-13-4	10:2 FTCA	< 0.840	ND	0.840		U	< 0.930	ND	0.930	*1	U	< 0.600	ND	0.600		U	< 0.93	ND	0.930	*1	U	(e)
	27854-31-5	8:2 FTCA	< 0.700	ND	0.700		U	< 0.590	ND	0.590		U	< 0.650	ND	0.650		U	< 0.590	ND	0.590		U	(e)
	53826-12-3	6:2FTCA	< 0.860	ND	0.860		U	< 0.720	ND	0.720		U	< 0.600	ND	0.600		U	< 0.72	ND	0.720		U	(e)
	133201-07-7	PFECHS	< 0.440	ND	0.440		U	< 0.210	ND	0.210		U	< 0.320	ND	0.320		U	< 0.210	ND	0.210		U	(e)
70887-88-6	6:2 FTUCA	< 0.280	ND	0.280		U	< 0.100	ND	0.100		U	< 0.180	ND	0.180		U	< 0.1	ND	0.100		U	(e)	
Subtotal: Non-detect			40.834					22.217					10.54					25.347					
Subtotal: Detected			221.728					30.268					168.886					2.873					
Grand Total			262.562					52.485					179.426					28.22					

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL, calculation not performed per OTM-45 Section 9.1.6

Gas Flow Rate 33,040 dscfm
Oxygen 9.82 % dry basis
Sample Vol. 133.040 dscf

Table A-1-19. OTM-45 Data Reduction - Run 3A

PFAS Category	CAS No. ^(a,b,c)	Acronym	Stack Gas Subtotal (ng/sample)	Stack Gas Subtotal (lb/hr)	Stack Gas Concentration (ng/dscm @ 7% O ₂)	Total Waste Feed & Fuel Inputs (lb/hr)	Spike Inputs (lb/hr)	Total Waste Feeds, Fuels, and Spikes (lb/hr)	Stack Gas Subtotal (lb/hr)	DRE ^(a,b) (%)	Minimum Analyte in Waste Feed + Fuel Required to Show 99.9999% DRE (lb/hr)	Spiked Compound? (Yes/No)	Is Waste Feed, Fuel, & Spike PFAS Input Rate Sufficient to Demonstrate DRE at Stack Gas Detection Limit? >99.9999% >99.999% >99.99%
PFCA	375-22-4	PFBA	< 12.800	< 4.20E-07	< 4.26	1.78E-02	5.22E-01	5.40E-01	< 4.20E-07	99.999922	0.33672	Yes	Yes Yes Yes
	2706-90-3	PFPeA	< 7.328	< 2.41E-07	< 2.44	2.22E-02	0.00E+00	2.22E-02	< 2.41E-07	99.998918	0.04336	No	No Yes Yes
	307-24-4	PFHxA	< 2.280	< 7.49E-08	< 0.76	7.05E-02	1.08E-01	1.79E-01	< 7.49E-08	99.999958	0.05059	Yes	Yes Yes Yes
	375-85-9	PFHpA	< 5.010	< 1.65E-07	< 1.67	2.14E-02	0.00E+00	2.14E-02	< 1.65E-07	99.999230	0.09757	No	No Yes Yes
	335-67-1	PFOA	< 2.364	< 7.77E-08	< 0.79	7.15E-02	9.81E-02	1.70E-01	< 7.77E-08	99.999954	0.06176	Yes	Yes Yes Yes
	375-95-1	PFNA	< 0.724	< 2.38E-08	< 0.24	6.12E-07	3.78E-02	3.78E-02	< 2.38E-08	99.999937	0.01462	Yes	Yes Yes Yes
	335-76-2	PFDA	< 1.050	< 3.45E-08	ND < 0.35	1.50E-07	5.36E-02	5.36E-02	< 3.45E-08	ND 99.999936	0.03449	Yes	Yes Yes Yes
	2058-94-8	PFUnA	< 0.710	< 2.33E-08	ND < 0.24	ND 0.00E+00	0.00E+00	0.00E+00	< 2.33E-08	ND	0.02332	No	No No No
	307-55-1	PFDoA	< 0.614	< 2.02E-08	< 0.20	0.00E+00	0.00E+00	0.00E+00	< 2.02E-08		0.01429	No	No No No
	72629-94-8	PFTriA	< 0.680	< 2.23E-08	ND < 0.23	ND 0.00E+00	0.00E+00	0.00E+00	< 2.23E-08	ND	0.02234	No	No No No
	376-06-7	PFTeA	< 0.855	< 2.81E-08	ND < 0.28	ND 0.00E+00	0.00E+00	0.00E+00	< 2.81E-08	ND	0.02809	No	No No No
	67905-19-5	PFHxDA	< 1.045	< 3.43E-08	ND < 0.35	ND 0.00E+00	0.00E+00	0.00E+00	< 3.43E-08	ND	0.03433	No	No No No
	16517-11-6	PFODA	< 0.855	< 2.81E-08	ND < 0.28	ND 0.00E+00	0.00E+00	0.00E+00	< 2.81E-08	ND	0.02809	No	No No No
	375-73-5	PFBS	< 6.986	< 2.29E-07	< 2.33	9.59E-02	1.00E-01	1.96E-01	< 2.29E-07	99.999883	0.07786	Yes	Yes Yes Yes
PFSA	2706-91-4	PFPeS	< 0.418	< 1.37E-08	ND < 0.14	ND 1.42E-01	0.00E+00	1.42E-01	< 1.37E-08	ND 99.999990	0.01373	No	Yes Yes Yes
	355-46-4	PFHxS	< 0.465	< 1.53E-08	ND < 0.15	ND 8.65E-01	3.66E-02	9.02E-01	< 1.53E-08	ND 99.999998	0.01528	Yes	Yes Yes Yes
	375-92-8	PFHpS	< 0.890	< 2.92E-08	ND < 0.30	ND 1.12E-01	0.00E+00	1.12E-01	< 2.92E-08	ND 99.999974	0.02924	No	Yes Yes Yes
	1763-23-1	PFOS	< 1.732	< 5.69E-08	< 0.58	4.46E+00	7.66E-02	4.53E+00	< 5.69E-08	99.999999	0.04468	Yes	Yes Yes Yes
	68259-12-1	PFNS	< 0.455	< 1.49E-08	ND < 0.15	ND 3.95E-03	0.00E+00	3.95E-03	< 1.49E-08	ND 99.999621	0.01495	No	No Yes Yes
	335-77-3	PFDS	< 0.705	< 2.32E-08	ND < 0.23	ND 2.73E-03	0.00E+00	2.73E-03	< 2.32E-08	ND 99.999150	0.02316	No	No Yes Yes
	79780-39-5	PFDoS	< 0.940	< 3.09E-08	ND < 0.31	ND 1.37E-03	0.00E+00	1.37E-03	< 3.09E-08	ND 99.997751	0.03088	No	No No Yes
	754-91-6	FOSA	< 0.551	< 1.81E-08	ND < 0.18	ND 8.30E-09	0.00E+00	8.30E-09	< 1.81E-08	ND	0.01810	No	No No No
	31506-32-8	NMeFOSA	< 0.820	< 2.69E-08	ND < 0.27	ND 2.65E-08	0.00E+00	2.65E-08	< 2.69E-08	ND	0.02694	No	No No No
	4151-50-2	NEtFOSA	< 0.910	< 2.99E-08	ND < 0.30	ND 0.00E+00	0.00E+00	0.00E+00	< 2.99E-08	ND	0.02989	No	No No No
FOSA	2355-31-9	NMeFOSAA	< 0.655	< 2.15E-08	ND < 0.22	ND 1.18E-07	0.00E+00	1.18E-07	< 2.15E-08	ND	0.02152	No	No No No
	2991-50-6	NEtFOSAA	< 0.620	< 2.04E-08	ND < 0.21	ND 1.95E-06	0.00E+00	1.95E-06	< 2.04E-08	ND	0.02037	No	No No No
FOSE	24448-09-7	N-MeFOSE	< 10.305	< 3.39E-07	ND < 3.43	ND 3.80E-07	0.00E+00	3.80E-07	< 3.39E-07	ND	0.33853	No	No No No
	1691-99-2	N-EtFOSE	< 0.775	< 2.55E-08	ND < 0.26	ND 2.93E-07	0.00E+00	2.93E-07	< 2.55E-08	ND	0.02546	No	No No No
FTS	757124-72-4	4:2 FTS	< 0.392	< 1.29E-08	ND < 0.13	ND 0.00E+00	0.00E+00	0.00E+00	< 1.29E-08	ND	0.01288	No	No No No
	27619-97-2	6:2 FTS	< 8.800	< 2.89E-07	ND < 2.93	ND 7.39E-06	0.00E+00	7.39E-06	< 2.89E-07	ND	0.28909	No	No No No
	39108-34-4	8:2 FTS	< 0.680	< 2.23E-08	ND < 0.23	ND 3.01E-07	0.00E+00	3.01E-07	< 2.23E-08	ND	0.02234	No	No No No
	120226-60-0	10:2 FTS	< 1.085	< 3.56E-08	ND < 0.36	ND 0.00E+00	0.00E+00	0.00E+00	< 3.56E-08	ND	0.03564	No	No No No
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 401.900	< 1.32E-05	< 133.83	2.03E-07	6.49E-01	6.49E-01	< 1.32E-05	99.997966	0.40308	Yes	Yes Yes Yes
	919005-14-4	DONA	< 1.660	< 5.45E-08	ND < 0.55	ND 0.00E+00	0.00E+00	0.00E+00	< 5.45E-08	ND	0.05453	No	No No No
	756426-58-1	9CI-PF3ONS	< 0.446	< 1.47E-08	ND < 0.15	ND 0.00E+00	0.00E+00	0.00E+00	< 1.47E-08	ND	0.01465	No	No No No
	763051-92-9	11CI-PF3OUdS	< 0.900	< 2.96E-08	ND < 0.30	ND 0.00E+00	0.00E+00	0.00E+00	< 2.96E-08	ND	0.02957	No	No No No
	377-73-1	PFECa F	< 1.160	< 3.81E-08	ND < 0.39	ND 6.39E-07	0.00E+00	6.39E-07	< 3.81E-08	ND	0.03811	No	No No No
Additional Targets	863090-89-5	PFECa A	< 0.881	< 2.89E-08	ND < 0.29	ND 0.00E+00	0.00E+00	0.00E+00	< 2.89E-08	ND	0.02894	No	No No No
	151772-58-6	PFECa B	< 0.780	< 2.56E-08	ND < 0.26	ND 0.00E+00	0.00E+00	0.00E+00	< 2.56E-08	ND	0.02562	No	No No No
	113507-82-7	PES	< 0.623	< 2.05E-08	ND < 0.21	ND 0.00E+00	0.00E+00	0.00E+00	< 2.05E-08	ND	0.02047	No	No No No
	356-02-5	3:3 FTCA	< 1.300	< 4.27E-08	ND < 0.43	ND 0.00E+00	0.00E+00	0.00E+00	< 4.27E-08	ND	0.04271	No	No No No
	914637-49-3	5:3 FTCA	< 2.039	< 6.70E-08	< 0.68	8.78E-07	0.00E+00	8.78E-07	< 6.70E-08		0.06242	No	No No No
	812-70-4	7:3 FTCA	< 1.475	< 4.85E-08	ND < 0.49	ND 0.00E+00	0.00E+00	0.00E+00	< 4.85E-08	ND	0.04845	No	No No No
	70887-84-2	8:2 FTUCA	< 0.970	< 3.19E-08	ND < 0.32	ND 0.00E+00	0.00E+00	0.00E+00	< 3.19E-08	ND	0.03187	No	No No No
	53826-13-4	10:2 FTUCA	< 2.370	< 7.79E-08	ND < 0.79	ND 0.00E+00	0.00E+00	0.00E+00	< 7.79E-08	ND	0.07786	No	No No No
	27854-31-5	8:2 FTCA	< 1.940	< 6.37E-08	ND < 0.65	ND 0.00E+00	0.00E+00	0.00E+00	< 6.37E-08	ND	0.06373	No	No No No
	53826-12-3	6:2 FTCA	< 2.180	< 7.16E-08	ND < 0.73	ND 0.00E+00	0.00E+00	0.00E+00	< 7.16E-08	ND	0.07161	No	No No No
	133201-07-7	PFECHS	< 0.970	< 3.19E-08	ND < 0.32	ND 0.00E+00	0.00E+00	0.00E+00	< 3.19E-08	ND	0.03187	No	No No No
	70887-88-6	6:2 FTUCA	< 0.560	< 1.84E-08	ND < 0.19	ND 0.00E+00	0.00E+00	0.00E+00	< 1.84E-08	ND	0.01840	No	No No No
	Subtotal: Non-detect		52.876	1.74E-06	17.608				1.74E-06				
	Subtotal: Detected		443.777	1.46E-05	147.779				1.46E-05				
	Grand Total		496.653	1.63E-05	165.387	5.88E+00	1.68E+00	7.57E+00	1.63E-05	99.999784			

(a) Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

(b) Blue Shading - Not OTM-45 Target Analyte

(c) Pink Shading - Compound Detected

(d) Breakthrough check per OTM-45 Section 9.1.6

(e) Breakthrough value less than 3*MDL, calculation not performed per OTM-45 Section 9.1.6

Gas Flow Rate 33,040 dscfm

Oxygen 9.82 % dry basis

Sample Vol. 133.040 dscf

Table A-1-20. OTM-45 Field Sample QA/QC Data Summary

PFAS Category	CAS No. ^(a,b,c)	Acronym	Sampling Train Proof Blank (STPB)				Glassware Proof Blank S-2022 (ng/sample)	Field Sample Media Blanks			
			Front Half S-2027, S-2028 (ng/sample)	Back Half S-2029, S-2030 (ng/sample)	Impinger Comp. S-2031, S-2032 (ng/sample)	BT XAD S-2033 (ng/sample)		Filter S-2023 (ng/sample)	XAD-2 S-2024 (ng/sample)	MeOH/5% NH4OH S-2025 (ng/sample)	DI Water S-2026 (ng/sample)
PFCA	375-22-4	PFBA	< 1.300	< 7.100	0.931	< 7.100	< 1.780	< 1.300	< 7.100	< 1.780	< 0.550
	2706-90-3	PFPeA	< 0.180	< 0.830	< 0.130	< 0.830	< 0.208	< 0.180	< 0.830	< 0.208	< 0.130
	307-24-4	PFHxA	0.597	< 0.740	0.770	< 0.740	< 0.185	< 0.210	< 0.740	< 0.185	< 0.380
	375-85-9	PFHpA	1.650	< 1.600	3.390	< 1.600	< 0.400	< 0.620	< 1.600	< 0.400	< 0.130
	335-67-1	PFOA	1.130	0.570	0.353	< 0.390	< 0.098	< 0.650	< 0.390	< 0.098	< 0.190
	375-95-1	PFNA	0.085	< 0.170	< 0.105	< 0.170	< 0.043	< 0.085	< 0.170	< 0.043	< 0.105
	335-76-2	PFDA	0.329	< 0.420	0.198	< 0.420	< 0.105	< 0.250	< 0.420	< 0.105	< 0.130
	2058-94-8	PFOA	< 0.170	< 0.220	< 0.150	< 0.220	< 0.055	< 0.170	< 0.220	< 0.055	< 0.150
	307-55-1	PFDoA	0.167	0.321	< 0.105	0.260	< 0.033	< 0.100	0.281	< 0.033	< 0.105
	72629-94-8	PFTriA	< 0.140	< 0.240	< 0.160	< 0.240	< 0.060	< 0.140	< 0.240	< 0.060	< 0.160
	376-06-7	PFTeA	< 0.170	< 0.290	< 0.224	< 0.290	< 0.073	< 0.170	< 0.290	< 0.073	< 0.225
	67905-19-5	PFHxDA	< 0.290	< 0.180	< 0.284	< 0.180	< 0.045	< 0.290	< 0.180	< 0.045	< 0.285
	16517-11-6	PFODA	< 0.220	< 0.160	< 0.254	< 0.160	< 0.040	< 0.220	< 0.160	< 0.040	< 0.255
PFSA	375-73-5	PFBS	< 0.890	2.110	< 0.090	2.060	< 0.125	< 0.890	2.010	< 0.125	< 0.090
	2706-91-4	PFPeS	< 0.120	< 0.058	< 0.120	< 0.058	< 0.015	< 0.120	< 0.058	< 0.015	< 0.120
	355-46-4	PFHxS	< 0.110	< 0.130	< 0.115	< 0.130	< 0.033	< 0.110	< 0.130	< 0.033	< 0.115
	375-92-8	PFHpS	< 0.110	< 0.440	< 0.229	< 0.440	< 0.110	< 0.110	< 0.440	< 0.110	< 0.230
	1763-23-1	PFOS	< 0.450	0.587	0.158	0.488	< 0.083	< 0.450	0.555	< 0.083	< 0.130
	68259-12-1	PFNS	< 0.120	< 0.140	< 0.075	< 0.140	< 0.035	< 0.120	< 0.140	< 0.035	< 0.075
	335-77-3	PFDS	< 0.110	< 0.320	< 0.165	< 0.320	< 0.080	< 0.110	< 0.320	< 0.080	< 0.165
	79780-39-5	PFDoS	< 0.095	< 0.590	< 0.160	< 0.590	< 0.148	< 0.095	< 0.590	< 0.148	< 0.160
	754-91-6	FOSA	< 0.088	< 0.260	< 0.115	< 0.260	< 0.065	< 0.088	< 0.260	< 0.065	< 0.115
FOSA	31506-32-8	NMeFOSA	< 0.150	< 0.350	< 0.170	< 0.350	< 0.088	< 0.150	< 0.350	< 0.088	< 0.170
	4151-50-2	NEtFOSA	< 0.160	< 0.320	< 0.269	< 0.320	< 0.080	< 0.160	< 0.320	< 0.080	< 0.270
FOSAA	2355-31-9	NMeFOSAA	< 0.120	< 0.210	< 0.204	< 0.210	< 0.053	< 0.120	< 0.210	< 0.053	< 0.205
	2991-50-6	NEtFOSAA	< 0.140	< 0.190	< 0.150	< 0.190	< 0.048	< 0.140	< 0.190	< 0.048	< 0.150
FOSE	24448-09-7	N-MeFOSE	< 4.900	< 0.300	< 0.204	< 0.300	< 0.075	< 4.900	< 0.300	< 0.075	< 0.205
	1691-99-2	N-EtFOSE	< 0.120	< 0.390	< 0.145	< 0.390	< 0.098	< 0.120	< 0.390	< 0.098	< 0.145
FTS	757124-72-4	4:2 FTS	< 0.091	< 0.095	< 0.115	< 0.095	< 0.024	< 0.091	< 0.095	< 0.024	< 0.115
	27619-97-2	6:2 FTS	< 4.000	< 0.250	< 0.549	< 0.250	< 0.063	< 4.000	< 0.250	< 0.063	< 0.550
	39108-34-4	8:2 FTS	< 0.140	< 0.140	< 0.259	< 0.140	< 0.035	< 0.140	< 0.140	< 0.035	< 0.260
	120226-60-0	10:2 FTS	< 0.320	< 0.230	< 0.214	< 0.230	< 0.058	< 0.320	< 0.230	< 0.058	< 0.215
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	29.000	2.520	< 0.469	< 2.400	< 0.600	< 4.700	< 2.400	< 0.600	0.842
	919005-14-4	DONA	< 0.140	< 1.100	< 0.279	< 1.100	< 0.275	< 0.140	< 1.100	< 0.275	< 0.280
	756426-58-1	9CI-PF3ONS	< 0.098	< 0.120	< 0.130	< 0.120	< 0.030	< 0.098	< 0.120	< 0.030	< 0.130
	763051-92-9	11CI-PF3OUdS	< 0.200	< 0.360	< 0.140	< 0.360	< 0.090	< 0.200	< 0.360	< 0.090	< 0.140
Additional Targets	377-73-1	PFECa F	< 0.150	< 0.570	< 0.289	< 0.570	< 0.143	< 0.150	< 0.570	< 0.143	< 0.290
	863090-89-5	PFECa A	< 0.200	< 0.086	< 0.394	< 0.086	< 0.022	< 0.200	< 0.086	< 0.022	< 0.395
	151772-58-6	PFECa B	< 0.150	< 0.190	< 0.289	< 0.190	< 0.048	< 0.150	< 0.190	< 0.048	< 0.290
	113507-82-7	PES	< 0.140	< 0.088	< 0.254	< 0.088	< 0.022	< 0.140	< 0.088	< 0.022	< 0.255
	356-02-5	3:3 FTCA	< 0.290	< 0.280	< 0.439	< 0.280	< 0.070	< 0.290	< 0.280	< 0.070	< 0.440
	914637-49-3	5:3 FTCA	< 0.480	< 0.340	< 0.599	< 0.340	< 0.085	< 0.480	< 0.340	< 0.085	< 0.600
	812-70-4	7:3 FTCA	< 0.350	< 0.380	< 0.394	< 0.380	< 0.095	< 0.350	< 0.380	< 0.095	< 0.395
	70887-84-2	8:2 FTUCA	< 0.220	< 0.130	< 0.399	< 0.130	< 0.033	< 0.220	< 0.130	< 0.033	< 0.400
	53826-13-4	10:2 FTCA	< 0.420	< 0.930	< 0.599	< 0.930	< 0.233	< 0.420	< 0.930	< 0.233	< 0.600
	27854-31-5	8:2 FTCA	< 0.350	< 0.590	< 0.648	< 0.590	< 0.148	< 0.350	< 0.590	< 0.148	< 0.650
	53826-12-3	6:2 FTCA	< 0.430	< 0.720	< 0.599	< 0.720	< 0.180	< 0.430	< 0.720	< 0.180	< 0.600
	133201-07-7	PFECa S	< 0.220	< 0.210	< 0.319	< 0.210	< 0.053	< 0.220	< 0.210	< 0.053	< 0.320
	70887-88-6	6:2 FTUCA	< 0.140	< 0.100	< 0.180	< 0.100	< 0.025	< 0.140	< 0.100	< 0.025	< 0.180

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Table A-1-22. Glassware Rinse Proof Blank

PFAS Category	CAS No. ^(a,b,c)	Acronym	S-2022 QA			
			OTM-45 GLASSWARE RINSE PB			
			Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag
PFCA	375-22-4	PFBA	< 1.780	1.78		U
	2706-90-3	PFPeA	< 0.208	0.208		U
	307-24-4	PFHxA	< 0.185	0.185		U
	375-85-9	PFHpA	< 0.400	0.400		U
	335-67-1	PFOA	< 0.098	0.0975		U
	375-95-1	PFNA	< 0.043	0.0425		U
	335-76-2	PFDA	< 0.105	0.105		U
	2058-94-8	PFUnA	< 0.055	0.0550		U
	307-55-1	PFDoA	< 0.033	0.0325		U
	72629-94-8	PFTriA	< 0.060	0.0600		U
	376-06-7	PFTeA	< 0.073	0.0725		U
	67905-19-5	PFHxDA	< 0.045	0.0450		U
	16517-11-6	PFODA	< 0.040	0.0400		U
PFSA	375-73-5	PFBS	< 0.125	0.125		U
	2706-91-4	PFPeS	< 0.015	0.0145		U
	355-46-4	PFHxS	< 0.033	0.0325		U
	375-92-8	PFHpS	< 0.110	0.110	*+	U
	1763-23-1	PFOS	< 0.083	0.0825		U
	68259-12-1	PFNS	< 0.035	0.0350	*-	UJ-
	335-77-3	PFDS	< 0.080	0.0800	*-	UJ-
	79780-39-5	PFDoS	< 0.148	0.148	*+	U
FOSA	754-91-6	FOSA	< 0.065	0.0650		U
	31506-32-8	NMeFOSA	< 0.088	0.0875		U
	4151-50-2	NEtFOSA	< 0.080	0.0800		U
FOSAA	2355-31-9	NMeFOSAA	< 0.053	0.0525		U
	2991-50-6	NEtFOSAA	< 0.048	0.0475		U
FOSE	24448-09-7	N-MeFOSE	< 0.075	0.0750		U
	1691-99-2	N-EtFOSE	< 0.098	0.0975		U
FTS	757124-72-4	4:2 FTS	< 0.024	0.0238		U
	27619-97-2	6:2 FTS	< 0.063	0.0625		U
	39108-34-4	8:2 FTS	< 0.035	0.0350		U
	120226-60-0	10:2 FTS	< 0.058	0.0575		U
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 0.600	0.600		U
	919005-14-4	DONA	< 0.275	0.275	*+	U
	756426-58-1	9Cl-PF3ONS	< 0.030	0.0300	*-	UJ-
	763051-92-9	11Cl-PF3OUdS	< 0.090	0.0900	*-	UJ-
Additional Targets	377-73-1	PFECA F	< 0.143	0.143		U
	863090-89-5	PFECA A	< 0.022	0.0215		U
	151772-58-6	PFECA B	< 0.048	0.0475		U
	113507-82-7	PES	< 0.022	0.0220		U
	356-02-5	3:3 FTCA	< 0.070	0.0700	*+	U
	914637-49-3	5:3 FTCA	< 0.085	0.0850	*+	U
	812-70-4	7:3 FTCA	< 0.095	0.0950		U
	70887-84-2	8:2 FTUCA	< 0.033	0.0325		U
	53826-13-4	10:2 FTCA	< 0.233	0.233	*1	U
	27854-31-5	8:2 FTCA	< 0.148	0.148		U
	53826-12-3	6:2FTCA	< 0.180	0.180		U
	133201-07-7	PFECHS	< 0.053	0.0525		U
	70887-88-6	6:2 FTUCA	< 0.025	0.0250		U

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Table A-1-23. OTM-45 Laboratory Sample QA/QC Data Summary

PFAS Category	CAS No. ^(a,b,c)	Acronym	Media Checks		Method Blanks		
			Filter A-2499 (ng/sample)	XAD-2 A-2501 (ng/sample)	MB 140-93798/1-B (ng/sample)	MB 140-93945/1-B (ng/sample)	MB 140-93949/1-B (ng/sample)
PFCA	375-22-4	PFBA	< 7.100	< 1.280	1.449	< 1.280	< 7.100
	2706-90-3	PFPeA	< 0.830	< 0.177	< 0.260	< 0.177	< 0.830
	307-24-4	PFHxA	< 0.740	0.230	< 0.760	0.411	< 0.740
	375-85-9	PFHpA	< 1.600	0.823	< 0.260	2.689	< 1.600
	335-67-1	PFOA	< 0.390	< 0.638	< 0.380	< 0.638	< 0.390
	375-95-1	PFNA	< 0.170	< 0.083	< 0.210	< 0.084	< 0.170
	335-76-2	PFDA	< 0.420	< 0.245	< 0.260	< 0.246	< 0.420
	2058-94-8	PFUnA	< 0.220	< 0.167	< 0.300	< 0.167	< 0.220
	307-55-1	PFDoA	< 0.130	< 0.098	< 0.210	< 0.098	< 0.130
	72629-94-8	PFTriA	< 0.240	< 0.137	< 0.320	< 0.138	< 0.240
	376-06-7	PFTeA	< 0.290	< 0.167	< 0.450	< 0.167	< 0.290
	67905-19-5	PFHxDA	< 0.180	< 0.285	< 0.570	< 0.285	< 0.180
	16517-11-6	PFODA	< 0.160	< 0.216	< 0.510	< 0.216	< 0.160
PFSA	375-73-5	PFBS	0.752	< 0.874	< 0.180	< 0.874	< 0.500
	2706-91-4	PFPeS	< 0.058	< 0.118	< 0.240	< 0.118	< 0.058
	355-46-4	PFHxS	< 0.130	< 0.108	< 0.230	< 0.108	< 0.130
	375-92-8	PFHpS	< 0.440	< 0.108	< 0.460	< 0.108	< 0.440
	1763-23-1	PFOS	< 0.330	< 0.442	< 0.260	< 0.442	< 0.330
	68259-12-1	PFNS	< 0.140	< 0.118	< 0.150	< 0.118	< 0.140
	335-77-3	PFDS	< 0.320	< 0.108	< 0.330	< 0.108	< 0.320
	79780-39-5	PFDoS	< 0.590	< 0.093	< 0.320	< 0.093	< 0.590
FOSA	754-91-6	FOSA	< 0.260	< 0.086	< 0.230	< 0.086	< 0.260
	31506-32-8	NMeFOSA	< 0.350	< 0.147	< 0.340	< 0.147	< 0.350
	4151-50-2	NEtFOSA	< 0.320	< 0.157	< 0.540	< 0.157	< 0.320
FOSAA	2355-31-9	NMeFOSAA	< 0.210	< 0.118	< 0.410	< 0.118	< 0.210
	2991-50-6	NEtFOSAA	< 0.190	< 0.137	< 0.300	< 0.138	< 0.190
FOSE	24448-09-7	N-MeFOSE	< 0.300	< 4.810	< 0.410	< 4.810	< 0.300
	1691-99-2	N-EtFOSE	< 0.390	< 0.118	< 0.290	< 0.118	< 0.390
FTS	757124-72-4	4:2 FTS	< 0.095	< 0.089	< 0.230	< 0.089	< 0.095
	27619-97-2	6:2 FTS	< 0.250	< 3.930	< 1.100	< 3.930	< 0.250
	39108-34-4	8:2 FTS	< 0.140	< 0.137	< 0.520	< 0.138	< 0.140
	120226-60-0	10:2 FTS	< 0.230	< 0.314	< 0.430	< 0.314	< 0.230
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 2.400	< 4.610	< 0.940	< 4.620	< 2.400
	919005-14-4	DONA	< 1.100	< 0.137	< 0.560	< 0.138	< 1.100
	756426-58-1	9CI-PF3ONS	< 0.120	< 0.096	< 0.260	< 0.096	< 0.120
	763051-92-9	11CI-PF3OUdS	< 0.360	< 0.196	< 0.280	< 0.196	< 0.360
Additional Targets	377-73-1	PFECA F	< 0.570	< 0.147	< 0.580	< 0.147	< 0.570
	863090-89-5	PFECA A	< 0.086	< 0.196	< 0.790	< 0.196	< 0.086
	151772-58-6	PFECA B	< 0.190	< 0.147	< 0.580	< 0.147	< 0.190
	113507-82-7	PES	< 0.088	< 0.137	< 0.510	< 0.138	< 0.088
	356-02-5	3:3 FTCA	< 0.280	< 0.285	< 0.880	< 0.285	< 0.280
	914637-49-3	5:3 FTCA	< 0.340	< 0.471	< 1.200	< 0.471	< 0.340
	812-70-4	7:3 FTCA	< 0.380	< 0.344	< 0.790	< 0.344	< 0.380
	70887-84-2	8:2 FTUCA	< 0.130	< 0.216	< 0.800	< 0.216	< 0.130
	53826-13-4	10:2 FTCA	< 0.930	< 0.412	< 1.200	< 0.413	< 0.930
	27854-31-5	8:2 FTCA	< 0.590	< 0.344	< 1.300	< 0.344	< 0.590
	53826-12-3	6:2 FTCA	< 0.720	< 0.422	< 1.200	< 0.422	< 0.720
	133201-07-7	PFECHS	< 0.210	< 0.216	< 0.640	< 0.216	< 0.210
	70887-88-6	6:2 FTUCA	< 0.100	< 0.137	< 0.360	< 0.138	< 0.100

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Table A-1-24. Field Sample Media Blanks

PFAS Category	CAS No. ^(a,b,c)	Acronym	S-2023 QA OTM-45 FILTER MEDIA BLANK				S-2024 QA OTM-45 XAD MEDIA BLANK				S-2025 QA OTM-45 MEQH/5% NH4OH MEDIA BLANK				S-2026 QA OTM-45 DI WATER MEDIA BLANK			
			Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag
PFCA	375-22-4	PFBA	< 1.300	1.30		U	< 7.100	7.10		U	< 1.780	1.78		U	< 0.550	0.550		U
	2706-90-3	PFPeA	< 0.180	0.180		U	< 0.830	0.830		U	< 0.208	0.208		U	< 0.130	0.130		U
	307-24-4	PFHxA	< 0.210	0.210		U	< 0.740	0.740		U	< 0.185	0.185		U	< 0.380	0.380		U
	375-85-9	PFHpA	< 0.620	0.620		U	< 1.600	1.60		U	< 0.400	0.400		U	< 0.130	0.130		U
	335-67-1	PFOA	< 0.650	0.650		U	< 0.390	0.390		U	< 0.098	0.0975		U	< 0.190	0.190		U
	375-95-1	PFNA	< 0.085	0.0850		U	< 0.170	0.170		U	< 0.043	0.0425		U	< 0.105	0.105		U
	335-76-2	PFDA	< 0.250	0.250		U	< 0.420	0.420		U	< 0.105	0.105		U	< 0.130	0.130		U
	2058-94-8	PFUnA	< 0.170	0.170		U	< 0.220	0.220		U	< 0.055	0.0550		U	< 0.150	0.150		U
	307-55-1	PFDoA	< 0.100	0.100		U	0.281	0.130	J	J	< 0.033	0.0325		U	< 0.105	0.105		U
	72629-94-8	PFTriA	< 0.140	0.140	+	U	< 0.240	0.240		U	< 0.060	0.0600		U	< 0.160	0.160		U
	376-06-7	PFTeA	< 0.170	0.170		U	< 0.290	0.290		U	< 0.073	0.0725		U	< 0.225	0.225		U
	67905-19-5	PFHxDA	< 0.290	0.290		U	< 0.180	0.180		U	< 0.045	0.0450		U	< 0.285	0.285		U
	16517-11-6	PFODA	< 0.220	0.220		U	< 0.160	0.160		U	< 0.040	0.0400		U	< 0.255	0.255	-	UJ-
PFSA	375-73-5	PFBS	< 0.890	0.890		U	2.010	0.500			< 0.125	0.125		U	< 0.090	0.0900		U
	2706-91-4	PFPeS	< 0.120	0.120		U	< 0.058	0.0580		U	< 0.015	0.0145		U	< 0.120	0.120		U
	355-46-4	PFHxS	< 0.110	0.110		U	< 0.130	0.130		U	< 0.033	0.0325		U	< 0.115	0.115		U
	375-92-8	PFHpS	< 0.110	0.110		U	< 0.440	0.440	+	U	< 0.110	0.110	+	U	< 0.230	0.230		U
	1763-23-1	PFOS	< 0.450	0.450		U	0.555	0.330	J	J-	< 0.083	0.0825		U	< 0.130	0.130		U
	68259-12-1	PFNS	< 0.120	0.120		U	< 0.140	0.140	-	UJ-	< 0.035	0.0350	-	UJ-	< 0.075	0.0750		U
	335-77-3	PFDS	< 0.110	0.110		U	< 0.320	0.320	-	UJ-	< 0.080	0.0800	-	UJ-	< 0.165	0.165		U
	79780-39-5	PFDoS	< 0.095	0.0950		U	< 0.590	0.590	+	U	< 0.148	0.148	+	U	< 0.160	0.160		U
	754-91-6	FOSA	< 0.088	0.0880		U	< 0.260	0.260		U	< 0.065	0.0650		U	< 0.115	0.115		U
FOSA	31506-32-8	NMeFOSA	< 0.150	0.150		U	< 0.350	0.350		U	< 0.088	0.0875		U	< 0.170	0.170		U
	4151-50-2	NEtFOSA	< 0.160	0.160		U	< 0.320	0.320		U	< 0.080	0.0800		U	< 0.270	0.270		U
FOSAA	2355-31-9	NMeFOSAA	< 0.120	0.120		U	< 0.210	0.210		U	< 0.053	0.0525		U	< 0.205	0.205		U
	2991-50-6	NEtFOSAA	< 0.140	0.140		U	< 0.190	0.190		U	< 0.048	0.0475		U	< 0.150	0.150		U
FOSE	24448-09-7	N-MeFOSE	< 4.900	4.90		U	< 0.300	0.300		U	< 0.075	0.0750		U	< 0.205	0.205		U
	1691-99-2	N-EtFOSE	< 0.120	0.120		U	< 0.390	0.390		U	< 0.098	0.0975		U	< 0.145	0.145		U
FTS	757124-72-4	4:2 FTS	< 0.091	0.0910		U	< 0.095	0.0950		U	< 0.024	0.0238		U	< 0.115	0.115		U
	27619-97-2	6:2 FTS	< 4.000	4.00		U	< 0.250	0.250		U	< 0.063	0.0625		U	< 0.550	0.550		U
	39108-34-4	8:2 FTS	< 0.140	0.140		U	< 0.140	0.140		U	< 0.035	0.0350		U	< 0.260	0.260		U
	120226-60-0	10:2 FTS	< 0.320	0.320		U	< 0.230	0.230		U	< 0.058	0.0575		U	< 0.215	0.215		U
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 4.700	4.70		U	< 2.400	2.40		U	< 0.600	0.600		U	0.842	0.470	J	J
	919005-14-4	DONA	< 0.140	0.140		U	< 1.100	1.10	+	U	< 0.275	0.275	+	U	< 0.280	0.280		U
	756426-58-1	9CI-PF3ONS	< 0.098	0.0980		U	< 0.120	0.120	-	UJ-	< 0.030	0.0300	-	UJ-	< 0.130	0.130		U
	763051-92-9	11CI-PF3OUdS	< 0.200	0.200		U	< 0.360	0.360	-	UJ-	< 0.090	0.0900	-	UJ-	< 0.140	0.140		U
Additional Targets	377-73-1	PFCEA F	< 0.150	0.150		U	< 0.570	0.570		U	< 0.143	0.143		U	< 0.290	0.290		U
	863090-89-5	PFCEA A	< 0.200	0.200		U	< 0.086	0.0860		U	< 0.022	0.0215		U	< 0.395	0.395		U
	151772-58-6	PFCEA B	< 0.150	0.150		U	< 0.190	0.190		U	< 0.048	0.0475		U	< 0.290	0.290		U
	113507-82-7	PES	< 0.140	0.140		U	< 0.088	0.0880		U	< 0.022	0.0220		U	< 0.255	0.255		U
	356-02-5	3:3 FTCA	< 0.290	0.290		U	< 0.280	0.280	+	U	< 0.070	0.0700	+	U	< 0.440	0.440	+	U
	914637-49-3	5:3 FTCA	< 0.480	0.480		U	< 0.340	0.340	+	U	< 0.085	0.0850	+	U	< 0.600	0.600		U
	812-70-4	7:3 FTCA	< 0.350	0.350		U	< 0.380	0.380		U	< 0.095	0.0950		U	< 0.395	0.395		U
	70887-84-2	8:2 FTUCA	< 0.220	0.220		U	< 0.130	0.130		U	< 0.033	0.0325		U	< 0.400	0.400		U
	53826-13-4	10:2 FTCA	< 0.420	0.420		U	< 0.930	0.930	*1	U	< 0.233	0.233	*1	U	< 0.600	0.600		U
	27854-31-5	8:2 FTCA	< 0.350	0.350		U	< 0.590	0.590		U	< 0.148	0.148		U	< 0.650	0.650		U
	53826-12-3	6:2FTCA	< 0.430	0.430		U	< 0.720	0.720		U	< 0.180	0.180		U	< 0.600	0.600		U
	133201-07-7	PFECHS	< 0.220	0.220		U	< 0.210	0.210		U	< 0.053	0.0525		U	< 0.320	0.320		U
	70887-88-6	6:2 FTUCA	< 0.140	0.140		U	< 0.100	0.100		U	< 0.025	0.0250		U	< 0.180	0.180		U

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Table A-1-25. Media Checks

PFAS Category	CAS No. ^(a,b,c)	Acronym	A-2499				A-2501			
			OTM-45 MEDIA CHECK XAD				OTM-45 MEDIA CHECK FILTER			
			Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag
PFCA	375-22-4	PFBA	< 7.100	7.10		U	< 1.280	1.28		U
	2706-90-3	PFPeA	< 0.830	0.830		U	< 0.177	0.177		U
	307-24-4	PFHxA	< 0.740	0.740		U	0.230	0.206	J B	J
	375-85-9	PFHpA	< 1.600	1.60		U	0.823	0.609	J B	J
	335-67-1	PFOA	< 0.390	0.390		U	< 0.638	0.638		U
	375-95-1	PFNA	< 0.170	0.170		U	< 0.083	0.0834		U
	335-76-2	PFDA	< 0.420	0.420		U	< 0.245	0.245		U
	2058-94-8	PFUnA	< 0.220	0.220		U	< 0.167	0.167		U
	307-55-1	PFDoA	< 0.130	0.130		U	< 0.098	0.0981		U
	72629-94-8	PFTriA	< 0.240	0.240		U	< 0.137	0.137	*+	U
	376-06-7	PFTeA	< 0.290	0.290		U	< 0.167	0.167		U
	67905-19-5	PFHxDA	< 0.180	0.180		U	< 0.285	0.285		U
PFSA	16517-11-6	PFODA	< 0.160	0.160		U	< 0.216	0.216		U
	375-73-5	PFBS	0.752	0.500	J	J	< 0.874	0.874		U
	2706-91-4	PFPeS	< 0.058	0.0580		U	< 0.118	0.118		U
	355-46-4	PFHxS	< 0.130	0.130		U	< 0.108	0.108		U
	375-92-8	PFHpS	< 0.440	0.440	*+	U	< 0.108	0.108		U
	1763-23-1	PFOS	< 0.330	0.330		U	< 0.442	0.442		U
	68259-12-1	PFNS	< 0.140	0.140	*-	UJ-	< 0.118	0.118		U
	335-77-3	PFDS	< 0.320	0.320	*-	UJ-	< 0.108	0.108		U
FOSA	79780-39-5	PFDoS	< 0.590	0.590	*+	U	< 0.093	0.0932		U
	754-91-6	FOSA	< 0.260	0.260		U	< 0.086	0.0864		U
	31506-32-8	NMeFOSA	< 0.350	0.350		U	< 0.147	0.147		U
FOSAA	4151-50-2	NEtFOSA	< 0.320	0.320		U	< 0.157	0.157		U
	2355-31-9	NMeFOSAA	< 0.210	0.210		U	< 0.118	0.118		U
	2991-50-6	NEtFOSAA	< 0.190	0.190		U	< 0.137	0.137		U
FOSE	24448-09-7	N-MeFOSE	< 0.300	0.300		U	< 4.810	4.81		U
	1691-99-2	N-EtFOSE	< 0.390	0.390		U	< 0.118	0.118		U
FTS	757124-72-4	4:2 FTS	< 0.095	0.0950		U	< 0.089	0.0893		U
	27619-97-2	6:2 FTS	< 0.250	0.250		U	< 3.930	3.93		U
	39108-34-4	8:2 FTS	< 0.140	0.140		U	< 0.137	0.137		U
	120226-60-0	10:2 FTS	< 0.230	0.230		U	< 0.314	0.314		U
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 2.400	2.40		U	< 4.610	4.61		U
	919005-14-4	DONA	< 1.100	1.10	*+	U	< 0.137	0.137		U
	756426-58-1	9CI-PF3ONS	< 0.120	0.120	*-	UJ-	< 0.096	0.0962		U
	763051-92-9	11CI-PF3OUdS	< 0.360	0.360	*-	UJ-	< 0.196	0.196		U
Additional Targets	377-73-1	PFECA F	< 0.570	0.570		U	< 0.147	0.147		U
	863090-89-5	PFECA A	< 0.086	0.0860		U	< 0.196	0.196		U
	151772-58-6	PFECA B	< 0.190	0.190		U	< 0.147	0.147		U
	113507-82-7	PES	< 0.088	0.0880		U	< 0.137	0.137		U
	356-02-5	3:3 FTCA	< 0.280	0.280	*+	U	< 0.285	0.285		U
	914637-49-3	5:3 FTCA	< 0.340	0.340	*+	U	< 0.471	0.471		U
	812-70-4	7:3 FTCA	< 0.380	0.380		U	< 0.344	0.344		U
	70887-84-2	8:2 FTUCA	< 0.130	0.130		U	< 0.216	0.216		U
	53826-13-4	10:2 FTCA	< 0.930	0.930	*1	U	< 0.412	0.412		U
	27854-31-5	8:2 FTCA	< 0.590	0.590		U	< 0.344	0.344		U
	53826-12-3	6:2FTCA	< 0.720	0.720		U	< 0.422	0.422		U
	133201-07-7	PFECHS	< 0.210	0.210		U	< 0.216	0.216		U
	70887-88-6	6:2 FTUCA	< 0.100	0.100		U	< 0.137	0.137		U

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Table A-1-26. Method Blanks

PFAS Category	CAS No. ^(a,b,c)	Acronym	MB 140-93798/1-B				MB 140-93945/1-B				MB 140-93949/1-B			
			Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag	Measured (ng/sample)	MDL (ng/sample)	Lab Flag	DV Flag
PFCA	375-22-4	PFBA	1.449	1.10	J	J	< 1.280	1.28		U	< 7.100	7.10		U
	2706-90-3	PFPeA	< 0.260	0.260		U	< 0.177	0.177		U	< 0.830	0.830		U
	307-24-4	PFHxA	< 0.760	0.760		U	0.411	0.206	J	J	< 0.740	0.740		U
	375-85-9	PFHpA	< 0.260	0.260		U	2.689	0.609			< 1.600	1.60		U
	335-67-1	PFOA	< 0.380	0.380		U	< 0.638	0.638		U	< 0.390	0.390		U
	375-95-1	PFNA	< 0.210	0.210		U	< 0.084	0.0835		U	< 0.170	0.170		U
	335-76-2	PFDA	< 0.260	0.260		U	< 0.246	0.246		U	< 0.420	0.420		U
	2058-94-8	PFUnA	< 0.300	0.300		U	< 0.167	0.167		U	< 0.220	0.220		U
	307-55-1	PFDoA	< 0.210	0.210		U	< 0.098	0.0982		U	< 0.130	0.130		UJ-
	72629-94-8	PFTriA	< 0.320	0.320		U	< 0.138	0.138		U	< 0.240	0.240		UJ-
	376-06-7	PFTeA	< 0.450	0.450		U	< 0.167	0.167		U	< 0.290	0.290		U
	67905-19-5	PFHxDA	< 0.570	0.570		U	< 0.285	0.285		U	< 0.180	0.180		U
	16517-11-6	PFODA	< 0.510	0.510		U	< 0.216	0.216		U	< 0.160	0.160		U
PFSA	375-73-5	PFBS	< 0.180	0.180		U	< 0.874	0.874		U	< 0.500	0.500		U
	2706-91-4	PFPeS	< 0.240	0.240		U	< 0.118	0.118		U	< 0.058	0.0580		U
	355-46-4	PFHxS	< 0.230	0.230		U	< 0.108	0.108		U	< 0.130	0.130		U
	375-92-8	PFHpS	< 0.460	0.460		U	< 0.108	0.108		U	< 0.440	0.440		U
	1763-23-1	PFOS	< 0.260	0.260		U	< 0.442	0.442		U	< 0.330	0.330		U
	68259-12-1	PFNS	< 0.150	0.150		U	< 0.118	0.118		U	< 0.140	0.140		U
	335-77-3	PFDS	< 0.330	0.330		U	< 0.108	0.108		U	< 0.320	0.320		U
	79780-39-5	PFDoS	< 0.320	0.320		U	< 0.093	0.0933		U	< 0.590	0.590		U
FOSA	754-91-6	FOSA	< 0.230	0.230		U	< 0.086	0.0864		U	< 0.260	0.260		U
	31506-32-8	NMeFOSA	< 0.340	0.340		U	< 0.147	0.147		U	< 0.350	0.350		U
	4151-50-2	NEtFOSA	< 0.540	0.540		U	< 0.157	0.157		U	< 0.320	0.320		UJ-
FOSAA	2355-31-9	NMeFOSAA	< 0.410	0.410		U	< 0.118	0.118		U	< 0.210	0.210		U
	2991-50-6	NEtFOSAA	< 0.300	0.300		U	< 0.138	0.138		U	< 0.190	0.190		U
FOSE	24448-09-7	N-MeFOSE	< 0.410	0.410		U	< 4.810	4.81		U	< 0.300	0.300		U
	1691-99-2	N-EtFOSE	< 0.290	0.290		U	< 0.118	0.118		U	< 0.390	0.390		U
FTS	757124-72-4	4:2 FTS	< 0.230	0.230		U	< 0.089	0.0894		U	< 0.095	0.0950		U
	27619-97-2	6:2 FTS	< 1.100	1.10		U	< 3.930	3.93		U	< 0.250	0.250		U
	39108-34-4	8:2 FTS	< 0.520	0.520		U	< 0.138	0.138		U	< 0.140	0.140		U
	120226-60-0	10:2 FTS	< 0.430	0.430		U	< 0.314	0.314		U	< 0.230	0.230		U
Fluorinated Replacement Chemicals	13252-13-6	HFPO-DA	< 0.940	0.940		U	< 4.620	4.62		U	< 2.400	2.40		U
	919005-14-4	DONA	< 0.560	0.560		U	< 0.138	0.138		U	< 1.100	1.10		U
	756426-58-1	9CI-PF3ONS	< 0.260	0.260		U	< 0.096	0.0963		U	< 0.120	0.120		U
	763051-92-9	11CI-PF3OUdS	< 0.280	0.280		U	< 0.196	0.196		U	< 0.360	0.360		U
	377-73-1	PFECa F	< 0.580	0.580		U	< 0.147	0.147		U	< 0.570	0.570		U
Additional Targets	863090-89-5	PFECa A	< 0.790	0.790		U	< 0.196	0.196		U	< 0.086	0.0860		U
	151772-58-6	PFECa B	< 0.580	0.580		U	< 0.147	0.147		U	< 0.190	0.190		U
	113507-82-7	PES	< 0.510	0.510		U	< 0.138	0.138		U	< 0.088	0.0880		U
	356-02-5	3:3 FTCA	< 0.880	0.880		U	< 0.285	0.285		U	< 0.280	0.280		U
	914637-49-3	5:3 FTCA	< 1.200	1.20		U	< 0.471	0.471		U	< 0.340	0.340		U
	812-70-4	7:3 FTCA	< 0.790	0.790		U	< 0.344	0.344		U	< 0.380	0.380		U
	70887-84-2	8:2 FTUCA	< 0.800	0.800		U	< 0.216	0.216		U	< 0.130	0.130		U
	53826-13-4	10:2 FTCA	< 1.200	1.20		U	< 0.413	0.413		U	< 0.930	0.930		U
	27854-31-5	8:2 FTCA	< 1.300	1.30		U	< 0.344	0.344		U	< 0.590	0.590		U
	53826-12-3	6:2 FTCA	< 1.200	1.20		U	< 0.422	0.422		U	< 0.720	0.720		U
	133201-07-7	PFECHS	< 0.640	0.640		U	< 0.216	0.216		U	< 0.210	0.210		U
	70887-88-6	6:2 FTUCA	< 0.360	0.360		U	< 0.138	0.138		U	< 0.100	0.100		U

Yellow Shading - Spiking Chem. Runs 1A, 2A, 3A

Blue Shading - Not EPA Method 1633 Analyte

Pink Shading - Compound Detected

Appendix A-2

OTM-50 Data Reduction

Appendix A-2 Index

Table A-2-1. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 1A, 1B-1, 1B-2, and 1C

Table A-2-2. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 2A, 2B, and 2C

Table A-2-3. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 3A, 3B, and 3C

Table A-2-4. OTM-50 Comparison of Eurofins and EPA QA/QC Results

Table A-2-5. Eurofins OTM-50 Analytical Data Summary

Table A-2-6. Eurofins Data - OTM-50 Emission Calculations

Table A-2-7. EPA OTM-50 Analytical Data Summary

Table A-2-8. EPA Data - OTM-50 Emission Calculations

Table A-2-9. Hexafluoroethane (C₂F₆) DRE Calculations

Table A-2-1. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 1A, 1B-1, 1B-2, and 1C

CAS No.	Analyte	Eurofins Run 1A Result (µg/m ³)	EPA Run 1A Result (µg/m ³)	Eurofins Run 1B-2 Result (µg/m ³)	EPA Run 1B-1 Result (µg/m ³)	Eurofins Run 1C Result (µg/m ³)	EPA Run 1C Result (µg/m ³)
116-14-3	Tetrafluoroethene	< 0.456	< 0.220	< 0.475	< 0.220	< 0.459	< 0.220
75-46-7	Trifluoromethane	< 1.29	< 0.290	< 1.35	< 0.290	< 1.3	< 0.290
76-19-7	Octafluoropropane	< 1.11	< 0.350	< 1.16	< 0.350	< 1.12	< 0.350
75-10-5	Difluoromethane (HFC-32)	< 1.34	< 0.050	< 1.4	< 0.050	< 1.35	< 0.050
593-53-3	Fluoromethane	< 2.18	< 1.330	< 2.27	< 1.330	< 2.19	< 1.330
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 0.99	0.79	< 1.03	< 0.200	< 0.997	< 0.200
116-15-4	Hexafluoropropene	< 0.517	< 0.150	< 0.539	< 0.150	< 0.521	< 0.150
355-25-9	Decafluorobutane	< 0.879	< 0.650	< 0.917	< 0.650	< 0.885	< 0.650
678-26-2	Dodecafluoropentane	< 1.99	< 0.370	< 2.07	< 0.370	< 2	< 0.370
355-42-0	Tetradecafluorohexane	< 2.08	< 1.810	< 2.17	< 1.810	< 2.09	< 1.810
375-61-1	1H-Perfluoropentane	< 1.46	< 0.810	< 1.53	< 0.810	< 1.47	< 0.810
335-57-9	Hexadecafluoroheptane	< 0.955	< 0.320	< 0.997	< 0.320	< 0.962	< 0.320
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.02	< 0.320	< 1.07	< 0.320	< 1.03	< 0.320
355-37-3	1H-Perfluorohexane	< 0.827	< 0.310	< 0.863	< 0.310	< 0.833	< 0.310
375-83-7	1H-Perfluoroheptane	< 1.55	< 0.460	< 1.62	< 0.460	< 1.56	< 0.460
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.22	< 1.980	< 1.28	< 1.980	< 1.23	< 1.980
335-65-9	1H-Perfluorooctane	< 1.09	< 1.410	< 1.13	< 1.410	< 1.09	< 1.410
307-34-6	Octadecafluorooctane	< 1.24	< 1.430	< 1.29	< 1.430	< 1.25	< 1.430
375-17-7	1H-Nonfluorobutane	< 1	< 0.320	< 1.05	< 0.320	< 1.01	< 0.320
2252-84-8	1H-Heptafluoropropane	< 0.481	< 0.320	< 0.502	< 0.320	< 0.485	< 0.320
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.13	< 0.340	< 1.18	< 0.340	< 1.14	< 0.340
420-46-2	1,1,1-Trifluoroethane	< 2.28	< 0.340	< 2.37	< 0.340	< 2.29	< 0.340
75-45-6	Chlorodifluoromethane	< 1.49	0.48	< 1.55	0.26	< 1.5	< 0.240
75-72-9	Chlorotrifluoromethane	< 1.07	< 0.370	< 1.11	< 0.370	< 1.07	< 0.370
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.493	< 0.320	< 0.514	< 0.320	< 0.496	< 0.320
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.15	< 0.130	< 1.2	< 0.130	< 1.16	< 0.130
75-69-4	Trichlorofluoromethane	< 1.56	0.66	< 1.62	0.51	< 1.57	< 0.450
75-02-5	Vinyl Fluoride ^(a)	< 0.737		< 0.769		< 0.742	
79-38-9	Chlorotrifluoroethene ^(a)	< 0.444		< 0.464		< 0.447	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)	< 0.577		< 0.602		< 0.581	
76-16-4	Hexafluoroethane	< 0.527	< 0.140	< 0.549	< 0.140	< 0.53	< 0.140
428-59-1	Hexafluoropropylene oxide	< 10.4	< 6.630	< 10.9	< 6.630	< 10.5	< 6.630
75-73-0	Tetrafluoromethane	< 5.31	< 0.930	< 5.54	< 0.930	< 5.34	< 0.930
	Subtotal: Non-detect	< 50.84	< 22.10	< 53.08	< 22.30	< 51.20	< 22.990
	Subtotal: Detected	0.00	1.93	0.00	0.78	0.00	0.00
	Grand Total	< 50.84	< 24.029	< 53.08	< 23.077	< 51.20	< 22.99

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

Table A-2-2. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 2A, 2B, and 2C

CAS No.	Analyte	Eurofins Run 2A Result (µg/m ³)	EPA Run 2A Result (µg/m ³)	Eurofins Run 2B Result (µg/m ³)	EPA Run 2B Result (µg/m ³)	Eurofins Run 2C Result (µg/m ³)	EPA Run 2C Result (µg/m ³)
116-14-3	Tetrafluoroethene	< 0.481	< 0.220	< 0.469	< 0.220	< 0.453	< 0.220
75-46-7	Trifluoromethane	< 1.37	< 0.290	< 1.33	< 0.290	< 1.28	< 0.290
76-19-7	Octafluoropropane	< 1.17	< 0.350	< 1.14	< 0.350	< 1.1	< 0.350
75-10-5	Difluoromethane (HFC-32)	< 1.42	< 0.050	< 1.39	< 0.050	< 1.34	< 0.050
593-53-3	Fluoromethane	< 2.3	< 1.330	< 2.24	< 1.330	< 2.16	< 1.330
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.05	< 0.200	< 1.02	< 0.200	< 0.983	< 0.200
116-15-4	Hexafluoropropene	< 0.546	< 0.150	< 0.533	< 0.150	< 0.514	< 0.150
355-25-9	Decafluorobutane	< 0.929	< 0.650	< 0.905	< 0.650	< 0.873	< 0.650
678-26-2	Dodecafluoropentane	< 2.1	< 0.370	< 2.05	< 0.370	< 1.97	< 0.370
355-42-0	Tetradecafluorohexane	< 2.2	< 1.810	< 2.14	< 1.810	< 2.07	< 1.810
375-61-1	1H-Perfluoropentane	< 1.55	< 0.810	< 1.51	< 0.810	< 1.45	< 0.810
335-57-9	Hexadecafluoroheptane	< 1.01	< 0.320	< 0.984	< 0.320	< 0.949	< 0.320
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.08	< 0.320	< 1.05	< 0.320	< 1.01	< 0.320
355-37-3	1H-Perfluorohexane	< 0.874	< 0.310	< 0.852	< 0.310	< 0.822	< 0.310
375-83-7	1H-Perfluoroheptane	< 1.64	< 0.460	< 1.6	< 0.460	< 1.54	< 0.460
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.29	< 1.980	< 1.26	< 1.980	< 1.22	< 1.980
335-65-9	1H-Perfluorooctane	< 1.15	< 1.410	< 1.12	< 1.410	< 1.08	< 1.410
307-34-6	Octadecafluorooctane	< 1.31	< 1.430	< 1.28	< 1.430	< 1.23	< 1.430
375-17-7	1H-Nonafluorobutane	< 1.06	< 0.320	< 1.03	1.644	< 0.996	< 0.320
2252-84-8	1H-Heptafluoropropane	< 0.509	< 0.320	< 0.496	0.489	< 0.478	< 0.320
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.19	< 0.340	< 1.16	< 0.340	< 1.12	< 0.340
420-46-2	1,1,1-Trifluoroethane	< 2.4	< 0.340	< 2.34	< 0.340	< 2.26	< 0.340
75-45-6	Chlorodifluoromethane	< 1.57	0.376	< 1.53	0.477	< 1.48	< 0.240
75-72-9	Chlorotrifluoromethane	< 1.13	< 0.370	< 1.1	< 0.370	< 1.06	< 0.370
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.52	< 0.320	< 0.507	< 0.320	< 0.489	< 0.320
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.21	< 0.130	< 1.18	< 0.130	< 1.14	< 0.130
75-69-4	Trichlorofluoromethane	< 1.64	< 0.450	< 1.6	0.711	< 1.55	< 0.450
75-02-5	Vinyl Fluoride(a)	< 0.778		< 0.759		< 0.732	
79-38-9	Chlorotrifluoroethene(a)	< 0.47		< 0.458		< 0.442	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane(a)	< 0.609		< 0.594		< 0.573	
76-16-4	Hexafluoroethane	< 0.556	< 0.140	< 0.542	< 0.140	< 0.523	< 0.140
428-59-1	Hexafluoropropylene oxide	< 11	< 6.630	< 10.7	< 6.630	< 10.4	< 6.630
75-73-0	Tetrafluoromethane	< 5.61	< 0.930	< 5.47	< 0.930	< 5.27	< 0.930
	Subtotal: Non-detect	< 53.72	< 22.75	< 52.34	< 21.66	< 50.56	< 22.99
	Subtotal: Detected	0.00	0.38	0.00	3.32	0.00	0.00
	Grand Total	< 53.72	< 23.126	< 52.34	< 24.981	< 50.56	< 22.990

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

Table A-2-3. OTM-50 Emissions Based on Eurofins and EPA Analyses - Runs 3A, 3B, and 3C

CAS No.	Analyte	Eurofins Run 3A Result (µg/m ³)	EPA Run 3A Result (µg/m ³)	Eurofins Run 3B Result (µg/m ³)	EPA Run 3B Result (µg/m ³)	Eurofins Run 3C Result (µg/m ³)	EPA Run 3C Result (µg/m ³)
116-14-3	Tetrafluoroethene	< 0.518	< 0.220	< 0.466	< 0.220	< 0.459	< 0.220
75-46-7	Trifluoromethane	< 1.47	< 0.290	< 1.32	< 0.290	< 1.3	< 0.290
76-19-7	Octafluoropropane	< 1.26	< 0.350	< 1.14	< 0.350	< 1.12	< 0.350
75-10-5	Difluoromethane (HFC-32)	< 1.53	< 0.050	< 1.38	< 0.050	< 1.35	< 0.050
593-53-3	Fluoromethane	< 2.48	< 1.330	< 2.23	< 1.330	< 2.19	< 1.330
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.12	< 0.200	< 1.01	< 0.200	< 0.997	< 0.200
116-15-4	Hexafluoropropene	< 0.588	< 0.150	< 0.529	< 0.150	< 0.521	< 0.150
355-25-9	Decafluorobutane	< 0.999	< 0.650	< 0.9	< 0.650	< 0.885	< 0.650
678-26-2	Dodecafluoropentane	< 2.26	< 0.370	< 2.03	< 0.370	< 2	< 0.370
355-42-0	Tetradecafluorohexane	< 2.36	< 1.810	< 2.13	< 1.810	< 2.09	< 1.810
375-61-1	1H-Perfluoropentane	< 1.66	< 0.810	< 1.5	< 0.810	< 1.47	< 0.810
335-57-9	Hexadecafluoroheptane	< 1.09	< 0.320	< 0.978	< 0.320	< 0.962	< 0.320
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.16	< 0.320	< 1.04	< 0.320	< 1.03	< 0.320
355-37-3	1H-Perfluorohexane	< 0.94	< 0.310	< 0.847	< 0.310	< 0.833	< 0.310
375-83-7	1H-Perfluoroheptane	< 1.76	< 0.460	< 1.58	< 0.460	< 1.56	< 0.460
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.39	< 1.980	< 1.25	< 1.980	< 1.23	< 1.980
335-65-9	1H-Perfluorooctane	< 1.23	< 1.410	< 1.11	< 1.410	< 1.09	< 1.410
307-34-6	Octadecafluorooctane	< 1.41	< 1.430	< 1.27	< 1.430	< 1.25	< 1.430
375-17-7	1H-Nonafluorobutane	< 1.14	0.917	< 1.03	< 0.320	< 1.01	< 0.320
2252-84-8	1H-Heptafluoropropane	< 0.547	< 0.320	< 0.493	0.586	< 0.485	< 0.320
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.28	< 0.340	< 1.16	< 0.340	< 1.14	< 0.340
420-46-2	1,1,1-Trifluoroethane	< 2.59	< 0.340	< 2.33	< 0.340	< 2.29	< 0.340
75-45-6	Chlorodifluoromethane	< 1.69	0.469	< 1.52	0.348	< 1.5	0.248
75-72-9	Chlorotrifluoromethane	< 1.21	< 0.370	< 1.09	< 0.370	< 1.07	< 0.370
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.56	< 0.320	< 0.504	< 0.320	< 0.496	< 0.320
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.31	< 0.130	< 1.18	< 0.130	< 1.16	< 0.130
75-69-4	Trichlorofluoromethane	< 1.77	0.607	< 1.59	0.47	< 1.57	0.470
75-02-5	Vinyl Fluoride(a)	< 0.837		< 0.754		< 0.742	
79-38-9	Chlorotrifluoroethene(a)	< 0.505		< 0.455		< 0.447	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane(a)	< 0.655		< 0.59		< 0.581	
76-16-4	Hexafluoroethane	< 0.598	< 0.140	< 0.539	< 0.140	< 0.53	< 0.140
428-59-1	Hexafluoropropylene oxide	< 11.8	< 6.630	< 10.7	< 6.630	< 10.5	< 6.630
75-73-0	Tetrafluoromethane	< 6.03	< 0.930	< 5.43	< 0.930	< 5.34	< 0.930
	Subtotal: Non-detect	< 57.75	< 21.98	< 52.08	< 21.98	< 51.20	< 22.30
	Subtotal: Detected	0.00	1.99	0.00	1.40	0.00	0.72
	Grand Total	< 57.75	< 23.973	< 52.08	< 23.379	< 51.20	< 23.018

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

Table A-2-4. OTM-50 Comparison of Eurofins and EPA QA/QC Results

CAS No.	Analyte	Eurofins Pre-test Blank Result (µg/m ³)	EPA Pre-test Blank Result (µg/m ³)	Eurofins Post-test Blank Result (µg/m ³)	EPA Post-test Blank Result (µg/m ³)	Eurofins MB 140-93657/4 Result (µg/m ³)
116-14-3	Tetrafluoroethene	< 0.622	< 0.220	< 0.453	< 0.220	< 0.151
75-46-7	Trifluoromethane	< 1.77	< 0.290	< 1.28	< 0.290	< 0.43
76-19-7	Octafluoropropane	< 1.52	< 0.350	< 1.1	< 0.350	< 0.369
75-10-5	Difluoromethane (HFC-32)	< 1.84	< 0.050	< 1.34	< 0.050	< 0.447
593-53-3	Fluoromethane	< 2.97	< 1.330	< 2.16	< 1.330	< 0.724
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.35	< 0.200	< 0.983	< 0.200	< 0.329
116-15-4	Hexafluoropropene	< 0.706	< 0.150	< 0.514	< 0.150	< 0.172
355-25-9	Decafluorobutane	< 1.2	< 0.650	< 0.873	< 0.650	< 0.292
678-26-2	Dodecafluoropentane	< 2.71	< 0.370	< 1.97	< 0.370	< 0.66
355-42-0	Tetradecafluorohexane	< 2.84	< 1.810	< 2.07	< 1.810	< 0.691
375-61-1	1H-Perfluoropentane	< 2	< 0.810	< 1.45	< 0.810	< 0.486
335-57-9	Hexadecafluoroheptane	< 1.3	< 0.320	< 0.949	< 0.320	< 0.317
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.39	< 0.320	< 1.01	< 0.320	< 0.339
355-37-3	1H-Perfluorohexane	< 1.13	< 0.310	< 0.822	< 0.310	< 0.275
375-83-7	1H-Perfluoroheptane	< 2.12	< 0.460	< 1.54	< 0.460	< 0.515
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.67	< 1.980	< 1.22	< 1.980	< 0.407
335-65-9	1H-Perfluorooctane	< 1.48	< 1.410	< 1.08	< 1.410	< 0.361
307-34-6	Octadecafluorooctane	< 1.69	< 1.430	< 1.23	< 1.430	< 0.412
375-17-7	1H-Nonafluorobutane	< 1.37	< 0.320	< 0.996	< 0.320	< 0.333
2252-84-8	1H-Heptafluoropropane	< 0.657	< 0.320	< 0.478	< 0.320	< 0.16
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.54	< 0.340	< 1.12	< 0.340	< 0.376
420-46-2	1,1,1-Trifluoroethane	< 3.11	< 0.340	< 2.26	< 0.340	< 0.756
75-45-6	Chlorodifluoromethane	< 2.03	0.387	< 1.48	0.240	< 0.495
75-72-9	Chlorotrifluoromethane	< 1.46	< 0.370	< 1.06	< 0.370	< 0.355
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.672	< 0.320	< 0.489	< 0.320	< 0.164
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.57	< 0.130	< 1.14	< 0.130	< 0.382
75-69-4	Trichlorofluoromethane	< 2.12	0.56	< 1.55	0.45	< 0.517
75-02-5	Vinyl Fluoride(a)	< 1.01		< 0.732		< 0.245
79-38-9	Chlorotrifluoroethene(a)	< 0.607		< 0.442		< 0.148
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane(a)	< 0.787		< 0.573		< 0.192
76-16-4	Hexafluoroethane	< 0.719	< 0.140	< 0.523	< 0.140	< 0.175
428-59-1	Hexafluoropropylene oxide	< 14.2	< 6.630	< 10.4	< 6.630	< 3.46
75-73-0	Tetrafluoromethane	< 7.25	< 0.930	< 5.27	< 0.930	< 1.76
	Subtotal: Non-detect	< 69.41	< 22.30	< 50.56	< 22.99	< 16.90
	Subtotal: Detected	0.00	0.94	0.00	0.00	0.00
	Grand Total	< 69.41	< 23.244	< 50.56	< 22.990	< 16.90

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

Table A-2-5. Eurofins OTM-50 Analytical Data Summary

CAS #	Compound	Run 1A (µg/m³)	Run 1B-2 (µg/m³)	Run 1C (µg/m³)	Run 2A (µg/m³)	Run 2B (µg/m³)	Run 2C (µg/m³)	Run 3A (µg/m³)	Run 3B (µg/m³)	Run 3C (µg/m³)	Pre-test Blank (µg/m³)	Post-Test Blank (µg/m³)	Undiluted ^(a,b) MDL (µg/m³)	Diluted ^(a,b) MDL (µg/m³)
116-14-3	Tetrafluoroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	0.47
75-46-7	Trifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	1.33
76-19-7	Octafluoropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	1.15
75-10-5	Difluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	1.39
593-53-3	Fluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72	2.25
354-33-6	1,1,1,2,2-Pentafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	1.02
116-15-4	Hexafluoropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.53
355-25-9	Decafluorobutane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	0.91
678-26-2	Dodecafluoro-n-pentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	2.05
355-42-0	Tetradecafluorohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	2.15
375-61-1	1,1,1,2,2,3,3,4,4,5,5-Undecafluoropentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49	1.51
335-57-9	Hexadecafluoroheptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	0.99
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether (E1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	1.05
355-37-3	1,1,1,2,2,3,3,4,4,5,5,6,6-Tridecafluorohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.85
375-83-7	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7-Pentadecafluoroheptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52	1.60
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	1.26
335-65-9	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluorooctane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	1.12
307-34-6	Octadecafluorooctane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	1.28
375-17-7	1,1,1,2,2,3,3,4,4-Nonafluorobutane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	1.04
2252-84-8	1,1,1,2,2,3,3-Heptafluoropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	0.50
811-97-2	1,1,1,2-Tetrafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	1.17
420-46-2	1,1,1-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.76	2.35
75-45-6	Chlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49	1.54
75-72-9	Chlorotrifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	1.10
115-25-3	1,1,2,2,3,3,4,4-Octafluorocyclobutane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	0.51
559-40-0	Octafluorocyclopentene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	1.19
75-69-4	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52	1.61
75-02-5	Vinyl Fluoride ^(c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	0.76
79-38-9	Chlorotrifluoroethene ^(c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	0.60
76-16-4	Hexafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.54
428-59-1	Hexafluoropropene Oxide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.46	10.77
75-73-0	Tetrafluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.76	5.48

(a) Canister samples were diluted for analysis. MDLs used in calculations are the based on the diluted samples.

(b) Undiluted MDLs are presented in the analytical report but are not presented in the EDD.

(c) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

CAS # - Chemical Abstract Service number; MDL - minimum detection limit; RL - reporting limit; ND - nondetect

Table A-2-6. Eurofins Data - OTM-50 Emission Calculations

CAS No. Analyte		S-2063 R1A		Run 1A				S-2064 R1B		Run 1B-2				S-2065 R1C		Run 1C			
		Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.456	ND	0.456		UJ-	< 5.82E-05	< 0.475	ND	0.475		UJ-	< 5.94E-05	< 0.459	ND	0.459		UJ-	< 5.74E-05
75-46-7	Trifluoromethane	< 1.29	ND	1.29		U	< 1.65E-04	< 1.35	ND	1.35		U	< 1.69E-04	< 1.3	ND	1.3		U	< 1.63E-04
76-19-7	Octafluoropropane	< 1.11	ND	1.11		U	< 1.42E-04	< 1.16	ND	1.16		U	< 1.45E-04	< 1.12	ND	1.12		U	< 1.40E-04
75-10-5	Difluoromethane (HFC-32)	< 1.34	ND	1.34		U	< 1.71E-04	< 1.4	ND	1.4		U	< 1.75E-04	< 1.35	ND	1.35		U	< 1.69E-04
593-53-3	Fluoromethane	< 2.18	ND	2.18		U	< 2.78E-04	< 2.27	ND	2.27		U	< 2.84E-04	< 2.19	ND	2.19		U	< 2.74E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 0.99	ND	0.99		U	< 1.26E-04	< 1.03	ND	1.03		U	< 1.29E-04	< 0.997	ND	0.997		U	< 1.25E-04
116-15-4	Hexafluoropropene	< 0.517	ND	0.517		U	< 6.60E-05	< 0.539	ND	0.539		U	< 6.74E-05	< 0.521	ND	0.521		U	< 6.51E-05
355-25-9	Decafluorobutane	< 0.879	ND	0.879		U	< 1.12E-04	< 0.917	ND	0.917		U	< 1.15E-04	< 0.885	ND	0.885		U	< 1.11E-04
678-26-2	Dodecafluoropentane	< 1.99	ND	1.99		U	< 2.54E-04	< 2.07	ND	2.07		U	< 2.59E-04	< 2	ND	2		U	< 2.50E-04
355-42-0	Tetradecafluorohexane	< 2.08	ND	2.08		U	< 2.66E-04	< 2.17	ND	2.17		U	< 2.71E-04	< 2.09	ND	2.09		U	< 2.61E-04
375-61-1	1H-Perfluoropentane	< 1.46	ND	1.46		U	< 1.86E-04	< 1.53	ND	1.53		U	< 1.91E-04	< 1.47	ND	1.47		U	< 1.84E-04
335-57-9	Hexadecafluoroheptane	< 0.955	ND	0.955		U	< 1.22E-04	< 0.997	ND	0.997		U	< 1.25E-04	< 0.962	ND	0.962		U	< 1.20E-04
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.02	ND	1.02		U	< 1.30E-04	< 1.07	ND	1.07		U	< 1.34E-04	< 1.03	ND	1.03		U	< 1.29E-04
355-37-3	1H-Perfluorohexane	< 0.827	ND	0.827		U	< 1.06E-04	< 0.863	ND	0.863		U	< 1.08E-04	< 0.833	ND	0.833		U	< 1.04E-04
375-83-7	1H-Perfluoroheptane	< 1.55	ND	1.55		U	< 1.98E-04	< 1.62	ND	1.62		U	< 2.03E-04	< 1.56	ND	1.56		U	< 1.95E-04
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.22	ND	1.22		U	< 1.56E-04	< 1.28	ND	1.28		U	< 1.60E-04	< 1.23	ND	1.23		U	< 1.54E-04
335-65-9	1H-Perfluorooctane	< 1.09	ND	1.09		U	< 1.39E-04	< 1.13	ND	1.13		U	< 1.41E-04	< 1.09	ND	1.09		U	< 1.36E-04
307-34-6	Octadecafluorooctane	< 1.24	ND	1.24		U	< 1.58E-04	< 1.29	ND	1.29		U	< 1.61E-04	< 1.25	ND	1.25		U	< 1.56E-04
375-17-7	1H-Nonafluorobutane	< 1.00	ND	1.00		U	< 1.28E-04	< 1.05	ND	1.05		U	< 1.31E-04	< 1.01	ND	1.01		U	< 1.26E-04
2252-84-8	1H-Heptafluoropropane	< 0.481	ND	0.481		U	< 6.14E-05	< 0.502	ND	0.502		U	< 6.28E-05	< 0.485	ND	0.485		U	< 6.06E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.13	ND	1.13		U	< 1.44E-04	< 1.18	ND	1.18		U	< 1.48E-04	< 1.14	ND	1.14		U	< 1.43E-04
420-46-2	1,1,1-Trifluoroethane	< 2.28	ND	2.28		U	< 2.91E-04	< 2.37	ND	2.37		U	< 2.96E-04	< 2.29	ND	2.29		U	< 2.86E-04
75-45-6	Chlorodifluoromethane	< 1.49	ND	1.49		U	< 1.90E-04	< 1.55	ND	1.55		U	< 1.94E-04	< 1.5	ND	1.5		U	< 1.88E-04
75-72-9	Chlorotrifluoromethane	< 1.07	ND	1.07		U	< 1.37E-04	< 1.11	ND	1.11		U	< 1.39E-04	< 1.07	ND	1.07		U	< 1.34E-04
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.493	ND	0.493		U	< 6.30E-05	< 0.514	ND	0.514		U	< 6.43E-05	< 0.496	ND	0.496		U	< 6.20E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.15	ND	1.15		U	< 1.47E-04	< 1.2	ND	1.2		U	< 1.50E-04	< 1.16	ND	1.16		U	< 1.45E-04
75-69-4	Trichlorofluoromethane	< 1.56	ND	1.56		U	< 1.99E-04	< 1.62	ND	1.62		U	< 2.03E-04	< 1.57	ND	1.57		U	< 1.96E-04
75-02-5	Vinyl Fluoride	< 0.737	ND	0.737		U	< 9.41E-05	< 0.769	ND	0.769		U	< 9.62E-05	< 0.742	ND	0.742		U	< 9.28E-05
79-38-9	Chlorotrifluoroethene	< 0.444	ND	0.444		U	< 5.67E-05	< 0.464	ND	0.464		U	< 5.80E-05	< 0.447	ND	0.447		U	< 5.59E-05
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.577	ND	0.577		U	< 7.37E-05	< 0.602	ND	0.602		U	< 7.53E-05	< 0.581	ND	0.581		U	< 7.26E-05
76-16-4	Hexafluoroethane	< 0.527	ND	0.527		UJ-	< 6.73E-05	< 0.549	ND	0.549		UJ-	< 6.86E-05	< 0.53	ND	0.53		UJ-	< 6.63E-05
428-59-1	Hexafluoropropylene oxide	< 10.4	ND	10.4		UJ	< 1.33E-03	< 10.9	ND	10.9		UJ	< 1.36E-03	< 10.5	ND	10.5		UJ	< 1.31E-03
75-73-0	Tetrafluoromethane	< 5.31	ND	5.31		U	< 6.78E-04	< 5.54	ND	5.54		U	< 6.93E-04	< 5.34	ND	5.34		U	< 6.68E-04
	Subtotal - Non-detect	50.84					6.49E-03	53.081					6.64E-03	51.20					6.40E-03
	Subtotal - Detected	0.00					0.00E+00	0.00					0.00E+00	0.00					0.00E+00
	Grand Total	< 50.84					< 6.49E-03	< 53.081					< 6.64E-03	< 51.20					< 6.40E-03
	Stack Gas Flow Rate - Q (dscfm)						34,095						33,382						33,382

Conversion Factors

60 min/hr

35.3147 ft³/m³

1,000,000 µg/g

453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-6. Eurofins Data - OTM-50 Emission Calculations

		S-2066 R2A Run 2A						S-2067 R2B Run 2B						S-2068 R2C Run 2C					
CAS No.	Analyte	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.481	ND	0.481		UJ-	< 5.78E-05	< 0.469	ND	0.469		UJ-	< 5.57E-05	< 0.453	ND	0.453		UJ-	< 5.54E-05
75-46-7	Trifluoromethane	< 1.37	ND	1.37		U	< 1.65E-04	< 1.33	ND	1.33		U	< 1.58E-04	< 1.28	ND	1.28		U	< 1.56E-04
76-19-7	Octafluoropropane	< 1.17	ND	1.17		UJ	< 1.41E-04	< 1.14	ND	1.14		UJ	< 1.35E-04	< 1.1	ND	1.1		UJ	< 1.34E-04
75-10-5	Difluoromethane (HFC-32)	< 1.42	ND	1.42		U	< 1.71E-04	< 1.39	ND	1.39		U	< 1.65E-04	< 1.34	ND	1.34		U	< 1.64E-04
593-53-3	Fluoromethane	< 2.3	ND	2.3		U	< 2.77E-04	< 2.24	ND	2.24		U	< 2.66E-04	< 2.16	ND	2.16		U	< 2.64E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.05	ND	1.05		U	< 1.26E-04	< 1.02	ND	1.02		U	< 1.21E-04	< 0.983	ND	0.983		U	< 1.20E-04
116-15-4	Hexafluoropropene	< 0.546	ND	0.546		U	< 6.57E-05	< 0.533	ND	0.533		U	< 6.33E-05	< 0.514	ND	0.514		U	< 6.28E-05
355-25-9	Decafluorobutane	< 0.929	ND	0.929		U	< 1.12E-04	< 0.905	ND	0.905		U	< 1.08E-04	< 0.873	ND	0.873		U	< 1.07E-04
678-26-2	Dodecafluoropentane	< 2.1	ND	2.1		U	< 2.53E-04	< 2.05	ND	2.05		U	< 2.44E-04	< 1.97	ND	1.97		U	< 2.41E-04
355-42-0	Tetradecafluorohexane	< 2.2	ND	2.2		U	< 2.65E-04	< 2.14	ND	2.14		U	< 2.54E-04	< 2.07	ND	2.07		U	< 2.53E-04
375-61-1	1H-Perfluoropentane	< 1.55	ND	1.55		U	< 1.86E-04	< 1.51	ND	1.51		U	< 1.79E-04	< 1.45	ND	1.45		U	< 1.77E-04
335-57-9	Hexadecafluoroheptane	< 1.01	ND	1.01		U	< 1.21E-04	< 0.984	ND	0.984		U	< 1.17E-04	< 0.949	ND	0.949		U	< 1.16E-04
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.08	ND	1.08		U	< 1.30E-04	< 1.05	ND	1.05		U	< 1.25E-04	< 1.01	ND	1.01		U	< 1.23E-04
355-37-3	1H-Perfluorohexane	< 0.874	ND	0.874		U	< 1.05E-04	< 0.852	ND	0.852		U	< 1.01E-04	< 0.822	ND	0.822		U	< 1.00E-04
375-83-7	1H-Perfluoroheptane	< 1.64	ND	1.64		U	< 1.97E-04	< 1.6	ND	1.6		U	< 1.90E-04	< 1.54	ND	1.54		U	< 1.88E-04
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.29	ND	1.29		U	< 1.55E-04	< 1.26	ND	1.26		U	< 1.50E-04	< 1.22	ND	1.22		U	< 1.49E-04
335-65-9	1H-Perfluorooctane	< 1.15	ND	1.15		U	< 1.38E-04	< 1.12	ND	1.12		U	< 1.33E-04	< 1.08	ND	1.08		U	< 1.32E-04
307-34-6	Octadecafluorooctane	< 1.31	ND	1.31		U	< 1.58E-04	< 1.28	ND	1.28		U	< 1.52E-04	< 1.23	ND	1.23		U	< 1.50E-04
375-17-7	1H-Nonafluorobutane	< 1.06	ND	1.06		U	< 1.27E-04	< 1.03	ND	1.03		U	< 1.22E-04	< 0.996	ND	0.996		U	< 1.22E-04
2252-84-8	1H-Heptafluoropropane	< 0.509	ND	0.509		U	< 6.12E-05	< 0.496	ND	0.496		U	< 5.89E-05	< 0.478	ND	0.478		U	< 5.84E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.19	ND	1.19		U	< 1.43E-04	< 1.16	ND	1.16		U	< 1.38E-04	< 1.12	ND	1.12		U	< 1.37E-04
420-46-2	1,1,1-Trifluoroethane	< 2.4	ND	2.4		U	< 2.89E-04	< 2.34	ND	2.34		U	< 2.78E-04	< 2.26	ND	2.26		U	< 2.76E-04
75-45-6	Chlorodifluoromethane	< 1.57	ND	1.57		U	< 1.89E-04	< 1.53	ND	1.53		U	< 1.82E-04	< 1.48	ND	1.48		U	< 1.81E-04
75-72-9	Chlorotrifluoromethane	< 1.13	ND	1.13		U	< 1.36E-04	< 1.1	ND	1.1		U	< 1.31E-04	< 1.06	ND	1.06		U	< 1.30E-04
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.52	ND	0.52		U	< 6.25E-05	< 0.507	ND	0.507		U	< 6.02E-05	< 0.489	ND	0.489		U	< 5.98E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.21	ND	1.21		U	< 1.45E-04	< 1.18	ND	1.18		U	< 1.40E-04	< 1.14	ND	1.14		U	< 1.39E-04
75-69-4	Trichlorofluoromethane	< 1.64	ND	1.64		U	< 1.97E-04	< 1.6	ND	1.6		U	< 1.90E-04	< 1.55	ND	1.55		U	< 1.89E-04
75-02-5	Vinyl Fluoride	< 0.778	ND	0.778		U	< 9.35E-05	< 0.759	ND	0.759		U	< 9.02E-05	< 0.732	ND	0.732		U	< 8.95E-05
79-38-9	Chlorotrifluoroethene	< 0.47	ND	0.47		U	< 5.65E-05	< 0.458	ND	0.458		U	< 5.44E-05	< 0.442	ND	0.442		U	< 5.40E-05
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.609	ND	0.609		U	< 7.32E-05	< 0.594	ND	0.594		U	< 7.06E-05	< 0.573	ND	0.573		U	< 7.00E-05
76-16-4	Hexafluoroethane	< 0.556	ND	0.556		UJ-	< 6.69E-05	< 0.542	ND	0.542		UJ-	< 6.44E-05	< 0.523	ND	0.523		UJ-	< 6.39E-05
428-59-1	Hexafluoropropylene oxide	< 11	ND	11		UJ	< 1.32E-03	< 10.7	ND	10.7		UJ	< 1.27E-03	< 10.4	ND	10.4		UJ	< 1.27E-03
75-73-0	Tetrafluoromethane	< 5.61	ND	5.61		U	< 6.75E-04	< 5.47	ND	5.47		U	< 6.50E-04	< 5.27	ND	5.27		U	< 6.44E-04
	Subtotal - Non-detect	53.72					6.46E-03	52.34					6.22E-03	50.56					6.18E-03
	Subtotal - Detected	0.00					0.00E+00	0.00					0.00E+00	0.00					0.00E+00
	Grand Total	< 53.72					< 6.46E-03	< 52.34					< 6.22E-03	< 50.56					< 6.18E-03
	Stack Gas Flow Rate - Q (dscfm)						32,101						31,721						32,631

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-6. Eurofins Data - OTM-50 Emission Calculations

		S-2069 R3A Run 3A						S-2070 R3B Run 3B						S-2071 R3C Run 3C					
CAS No.	Analyte	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.518	ND	0.518		UJ-	< 6.41E-05	< 0.466	ND	0.466		UJ-	< 5.56E-05	< 0.459	ND	0.459		UJ-	< 5.62E-05
75-46-7	Trifluoromethane	< 1.47	ND	1.47		U	< 1.82E-04	< 1.32	ND	1.32		U	< 1.58E-04	< 1.3	ND	1.3		U	< 1.59E-04
76-19-7	Octafluoropropane	< 1.26	ND	1.26		UJ	< 1.56E-04	< 1.14	ND	1.14		UJ	< 1.36E-04	< 1.12	ND	1.12		UJ	< 1.37E-04
75-10-5	Difluoromethane (HFC-32)	< 1.53	ND	1.53		U	< 1.89E-04	< 1.38	ND	1.38		U	< 1.65E-04	< 1.35	ND	1.35		U	< 1.65E-04
593-53-3	Fluoromethane	< 2.48	ND	2.48		U	< 3.07E-04	< 2.23	ND	2.23		U	< 2.66E-04	< 2.19	ND	2.19		U	< 2.68E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.12	ND	1.12		U	< 1.39E-04	< 1.01	ND	1.01		U	< 1.21E-04	< 0.997	ND	0.997		U	< 1.22E-04
116-15-4	Hexafluoropropene	< 0.588	ND	0.588		U	< 7.28E-05	< 0.529	ND	0.529		U	< 6.32E-05	< 0.521	ND	0.521		U	< 6.38E-05
355-25-9	Decafluorobutane	< 0.999	ND	0.999		U	< 1.24E-04	< 0.9	ND	0.9		U	< 1.07E-04	< 0.885	ND	0.885		U	< 1.08E-04
678-26-2	Dodecafluoropentane	< 2.26	ND	2.26		U	< 2.80E-04	< 2.03	ND	2.03		U	< 2.42E-04	< 2	ND	2		U	< 2.45E-04
355-42-0	Tetradecafluorohexane	< 2.36	ND	2.36		U	< 2.92E-04	< 2.13	ND	2.13		U	< 2.54E-04	< 2.09	ND	2.09		U	< 2.56E-04
375-61-1	1H-Perfluoropentane	< 1.66	ND	1.66		U	< 2.05E-04	< 1.5	ND	1.5		U	< 1.79E-04	< 1.47	ND	1.47		U	< 1.80E-04
335-57-9	Hexadecafluoroheptane	< 1.09	ND	1.09		U	< 1.35E-04	< 0.978	ND	0.978		U	< 1.17E-04	< 0.962	ND	0.962		U	< 1.18E-04
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.16	ND	1.16		U	< 1.44E-04	< 1.04	ND	1.04		U	< 1.24E-04	< 1.03	ND	1.03		U	< 1.26E-04
355-37-3	1H-Perfluorohexane	< 0.94	ND	0.94		U	< 1.16E-04	< 0.847	ND	0.847		U	< 1.01E-04	< 0.833	ND	0.833		U	< 1.02E-04
375-83-7	1H-Perfluoroheptane	< 1.76	ND	1.76		U	< 2.18E-04	< 1.58	ND	1.58		U	< 1.89E-04	< 1.56	ND	1.56		U	< 1.91E-04
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.39	ND	1.39		U	< 1.72E-04	< 1.25	ND	1.25		U	< 1.49E-04	< 1.23	ND	1.23		U	< 1.51E-04
335-65-9	1H-Perfluorooctane	< 1.23	ND	1.23		U	< 1.52E-04	< 1.11	ND	1.11		U	< 1.33E-04	< 1.09	ND	1.09		U	< 1.33E-04
307-34-6	Octadecafluorooctane	< 1.41	ND	1.41		U	< 1.74E-04	< 1.27	ND	1.27		U	< 1.52E-04	< 1.25	ND	1.25		U	< 1.53E-04
375-17-7	1H-Nonafluorobutane	< 1.14	ND	1.14		U	< 1.41E-04	< 1.03	ND	1.03		U	< 1.23E-04	< 1.01	ND	1.01		U	< 1.24E-04
2252-84-8	1H-Heptafluoropropane	< 0.547	ND	0.547		U	< 6.77E-05	< 0.493	ND	0.493		U	< 5.89E-05	< 0.485	ND	0.485		U	< 5.94E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.28	ND	1.28		U	< 1.58E-04	< 1.16	ND	1.16		U	< 1.39E-04	< 1.14	ND	1.14		U	< 1.40E-04
420-46-2	1,1,1-Trifluoroethane	< 2.59	ND	2.59		U	< 3.21E-04	< 2.33	ND	2.33		U	< 2.78E-04	< 2.29	ND	2.29		U	< 2.80E-04
75-45-6	Chlorodifluoromethane	< 1.69	ND	1.69		U	< 2.09E-04	< 1.52	ND	1.52		U	< 1.81E-04	< 1.5	ND	1.5		U	< 1.84E-04
75-72-9	Chlorotrifluoromethane	< 1.21	ND	1.21		U	< 1.50E-04	< 1.09	ND	1.09		U	< 1.30E-04	< 1.07	ND	1.07		U	< 1.31E-04
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.56	ND	0.56		U	< 6.93E-05	< 0.504	ND	0.504		U	< 6.02E-05	< 0.496	ND	0.496		U	< 6.07E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.31	ND	1.31		U	< 1.62E-04	< 1.18	ND	1.18		U	< 1.41E-04	< 1.16	ND	1.16		U	< 1.42E-04
75-69-4	Trichlorofluoromethane	< 1.77	ND	1.77		U	< 2.19E-04	< 1.59	ND	1.59		U	< 1.90E-04	< 1.57	ND	1.57		U	< 1.92E-04
75-02-5	Vinyl Fluoride	< 0.837	ND	0.837		U	< 1.04E-04	< 0.754	ND	0.754		U	< 9.00E-05	< 0.742	ND	0.742		U	< 9.08E-05
79-38-9	Chlorotrifluoroethene	< 0.505	ND	0.505		U	< 6.25E-05	< 0.455	ND	0.455		U	< 5.43E-05	< 0.447	ND	0.447		U	< 5.47E-05
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.655	ND	0.655		U	< 8.11E-05	< 0.59	ND	0.59		U	< 7.04E-05	< 0.581	ND	0.581		U	< 7.11E-05
76-16-4	Hexafluoroethane	< 0.598	ND	0.598		UJ-	< 7.40E-05	< 0.539	ND	0.539		UJ-	< 6.44E-05	< 0.53	ND	0.53		UJ-	< 6.49E-05
428-59-1	Hexafluoropropylene oxide	< 11.8	ND	11.8		UJ	< 1.46E-03	< 10.7	ND	10.7		UJ	< 1.28E-03	< 10.5	ND	10.5		UJ	< 1.29E-03
75-73-0	Tetrafluoromethane	< 6.03	ND	6.03		U	< 7.46E-04	< 5.43	ND	5.43		U	< 6.48E-04	< 5.34	ND	5.34		U	< 6.54E-04
	Subtotal - Non-detect	57.75					7.15E-03	52.08					6.22E-03	51.20					6.27E-03
	Subtotal - Detected	0.00					0.00E+00	0.00					0.00E+00	0.00					0.00E+00
	Grand Total	< 57.75					< 7.15E-03	< 52.08					< 6.22E-03	< 51.20					< 6.27E-03
	Stack Gas Flow Rate - Q (dscfm)						33,040						31,878						32,687

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-6. Eurofins Data - OTM-50 Emission Calculations

		S-2072 QA		QA - Pretest Blank			S-2073 QA		QA - Post Test Blank			MB 140-93657/4			MB	
		Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag	Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag	Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag
CAS No.	Analyte															
116-14-3	Tetrafluoroethene	< 0.622	ND	0.622		UJ-	< 0.453	ND	0.453		UJ-	< 0.151	ND	0.151		NA
75-46-7	Trifluoromethane	< 1.77	ND	1.77		U	< 1.28	ND	1.28		U	< 0.43	ND	0.43		NA
76-19-7	Octafluoropropane	< 1.52	ND	1.52		UJ	< 1.1	ND	1.1		UJ	< 0.369	ND	0.369		NA
75-10-5	Difluoromethane (HFC-32)	< 1.84	ND	1.84		U	< 1.34	ND	1.34		U	< 0.447	ND	0.447		NA
593-53-3	Fluoromethane	< 2.97	ND	2.97		U	< 2.16	ND	2.16		U	< 0.724	ND	0.724		NA
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 1.35	ND	1.35		U	< 0.983	ND	0.983		U	< 0.329	ND	0.329		NA
116-15-4	Hexafluoropropene	< 0.706	ND	0.706		U	< 0.514	ND	0.514		U	< 0.172	ND	0.172		NA
355-25-9	Decafluorobutane	< 1.2	ND	1.2		U	< 0.873	ND	0.873		U	< 0.292	ND	0.292		NA
678-26-2	Dodecafluoropentane	< 2.71	ND	2.71		U	< 1.97	ND	1.97		U	< 0.66	ND	0.66		NA
355-42-0	Tetradecafluorohexane	< 2.84	ND	2.84		U	< 2.07	ND	2.07		U	< 0.691	ND	0.691		NA
375-61-1	1H-Perfluoropentane	< 2	ND	2		U	< 1.45	ND	1.45		U	< 0.486	ND	0.486		NA
335-57-9	Hexadecafluoroheptane	< 1.3	ND	1.3		U	< 0.949	ND	0.949		U	< 0.317	ND	0.317		NA
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 1.39	ND	1.39		U	< 1.01	ND	1.01		U	< 0.339	ND	0.339		NA
355-37-3	1H-Perfluorohexane	< 1.13	ND	1.13		U	< 0.822	ND	0.822		U	< 0.275	ND	0.275		NA
375-83-7	1H-Perfluoroheptane	< 2.12	ND	2.12		U	< 1.54	ND	1.54		U	< 0.515	ND	0.515		NA
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.67	ND	1.67		U	< 1.22	ND	1.22		U	< 0.407	ND	0.407		NA
335-65-9	1H-Perfluorooctane	< 1.48	ND	1.48		U	< 1.08	ND	1.08		U	< 0.361	ND	0.361		NA
307-34-6	Octadecafluorooctane	< 1.69	ND	1.69		U	< 1.23	ND	1.23		U	< 0.412	ND	0.412		NA
375-17-7	1H-Nonafluorobutane	< 1.37	ND	1.37		U	< 0.996	ND	0.996		U	< 0.333	ND	0.333		NA
2252-84-8	1H-Heptafluoropropane	< 0.657	ND	0.657		U	< 0.478	ND	0.478		U	< 0.16	ND	0.16		NA
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 1.54	ND	1.54		U	< 1.12	ND	1.12		U	< 0.376	ND	0.376		NA
420-46-2	1,1,1-Trifluoroethane	< 3.11	ND	3.11		U	< 2.26	ND	2.26		U	< 0.756	ND	0.756		NA
75-45-6	Chlorodifluoromethane	< 2.03	ND	2.03		U	< 1.48	ND	1.48		U	< 0.495	ND	0.495		NA
75-72-9	Chlorotrifluoromethane	< 1.46	ND	1.46		U	< 1.06	ND	1.06		U	< 0.355	ND	0.355		NA
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.672	ND	0.672		U	< 0.489	ND	0.489		U	< 0.164	ND	0.164		NA
559-40-0	Octafluorocyclopentene (FC-C1418)	< 1.57	ND	1.57		U	< 1.14	ND	1.14		U	< 0.382	ND	0.382		NA
75-69-4	Trichlorofluoromethane	< 2.12	ND	2.12		U	< 1.55	ND	1.55		U	< 0.517	ND	0.517		NA
75-02-5	Vinyl Fluoride	< 1.01	ND	1.01		U	< 0.732	ND	0.732		U	< 0.245	ND	0.245		NA
79-38-9	Chlorotrifluoroethene	< 0.607	ND	0.607		U	< 0.442	ND	0.442		U	< 0.148	ND	0.148		NA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.787	ND	0.787		U	< 0.573	ND	0.573		U	< 0.192	ND	0.192		NA
76-16-4	Hexafluoroethane	< 0.719	ND	0.719		UJ-	< 0.523	ND	0.523		UJ-	< 0.175	ND	0.175		NA
428-59-1	Hexafluoropropylene oxide	< 14.2	ND	14.2		UJ	< 10.4	ND	10.4		UJ	< 3.46	ND	3.46		NA
75-73-0	Tetrafluoromethane	< 7.25	ND	7.25		U	< 5.27	ND	5.27		U	< 1.76	ND	1.76		NA
	Subtotal - Non-detect	69.41					50.56					16.90				
	Subtotal - Detected	0.00					0.00					0.00				
	Grand Total	< 69.41					< 50.56					< 16.90				
	Stack Gas Flow Rate - Q (dscfm)															

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-7. EPA OTM-50 Analytical Data Summary

CAS #	Compound	Run 1A (µg/m³)	MDL	Run 1B-1 (µg/m³)	MDL	Run 1C (µg/m³)	MDL	Run 2A (µg/m³)	MDL	Run 2B (µg/m³)	MDL	Run 2C (µg/m³)	MDL	Run 3A (µg/m³)	MDL	Run 3B (µg/m³)	MDL	Run 3C (µg/m³)	MDL	Pre-test Blank (µg/m³)	Post-Test Blank (µg/m³)	Undiluted MDL (µg/m³)	Undiluted RL (µg/m³)	Average Diluted MDL (µg/m³)
116-14-3	Tetrafluoroethylene	ND	0.23	ND	0.22	ND	0.23	ND	0.23	ND	0.22	ND	0.22	ND	0.24	ND	0.22	ND	0.22	ND	ND	0.078	4.02	0.22
75-46-7	Trifluoromethane	ND	0.31	ND	0.28	ND	0.30	ND	0.30	ND	0.29	ND	0.29	ND	0.31	ND	0.29	ND	0.29	ND	ND	0.102	2.82	0.29
76-19-7	Octafluoropropane	ND	0.36	ND	0.34	ND	0.36	ND	0.36	ND	0.34	ND	0.34	ND	0.38	ND	0.34	ND	0.34	ND	ND	0.122	7.52	0.35
75-10-5	Difluoromethane	ND	0.05	ND	0.04	ND	0.05	ND	0.05	ND	0.04	ND	0.04	ND	0.05	ND	0.04	ND	0.04	ND	ND	0.016	2.07	0.05
593-53-3	Fluoromethane	ND	1.39	ND	1.28	ND	1.37	ND	1.37	ND	1.30	ND	1.30	ND	1.43	ND	1.30	ND	1.30	ND	ND	0.463	1.38	1.33
354-33-6	1,1,1,2,2-Pentafluoroethane	0.79	0.20	ND	0.19	ND	0.20	ND	0.20	ND	0.19	ND	0.19	ND	0.21	ND	0.19	ND	0.19	ND	ND	0.068	4.85	0.20
116-15-4	Hexafluoropropene	ND	0.16	ND	0.15	ND	0.16	ND	0.16	ND	0.15	ND	0.15	ND	0.16	ND	0.15	ND	0.15	ND	ND	0.053	5.99	0.15
355-25-9	Decafluorobutane	ND	0.68	ND	0.62	ND	0.67	ND	0.67	ND	0.63	ND	0.63	ND	0.70	ND	0.63	ND	0.63	ND	ND	0.225	9.48	0.65
678-26-2	Dodecafluoro-n-pentane	ND	0.39	ND	0.36	ND	0.38	ND	0.38	ND	0.36	ND	0.36	ND	0.40	ND	0.36	ND	0.36	ND	ND	0.129	11.61	0.37
355-42-0	Tetradecafluorohexane	ND	1.88	ND	1.74	ND	1.86	ND	1.86	ND	1.76	ND	1.76	ND	1.94	ND	1.76	ND	1.76	ND	ND	0.627	13.58	1.81
375-61-1	1,1,1,2,2,3,3,4,4,5,5-Undecafluoropentane	ND	0.85	ND	0.78	ND	0.84	ND	0.84	ND	0.79	ND	0.79	ND	0.87	ND	0.79	ND	0.79	ND	ND	0.283	10.93	0.81
335-57-9	Hexadecafluoroheptane	ND	0.34	ND	0.31	ND	0.33	ND	0.33	ND	0.32	ND	0.32	ND	0.35	ND	0.32	ND	0.32	ND	ND	0.113	15.67	0.32
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether (E1)	ND	0.33	ND	0.30	ND	0.33	ND	0.33	ND	0.31	ND	0.31	ND	0.34	ND	0.31	ND	0.31	ND	ND	0.110	11.49	0.32
355-37-3	1,1,1,2,2,3,3,4,4,5,5,6,6-Tridecafluorohexane	ND	0.33	ND	0.30	ND	0.32	ND	0.32	ND	0.31	ND	0.31	ND	0.34	ND	0.31	ND	0.31	ND	ND	0.109	12.90	0.31
375-83-7	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7-Pentadecafluoroheptane	ND	0.48	ND	0.45	ND	0.48	ND	0.48	ND	0.45	ND	0.45	ND	0.50	ND	0.45	ND	0.45	ND	ND	0.161	14.94	0.46
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	ND	2.06	ND	1.90	ND	2.03	ND	2.03	ND	1.93	ND	1.92	ND	2.12	ND	1.93	ND	1.92	ND	ND	0.686	18.26	1.98
335-65-9	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluorooctane	ND	1.47	ND	1.36	ND	1.45	ND	1.45	ND	1.38	ND	1.37	ND	1.52	ND	1.38	ND	1.37	ND	ND	0.491	16.84	1.41
307-34-6	Octadecafluorooctane	ND	1.49	ND	1.37	ND	1.47	ND	1.47	ND	1.39	ND	1.39	ND	1.53	ND	1.39	ND	1.39	ND	ND	0.496	17.56	1.43
375-17-7	1,1,1,2,2,3,3,4,4-Nonafluorobutane	ND	0.33	ND	0.30	ND	0.33	ND	0.33	1.64	0.31	ND	0.31	0.92	0.34	ND	0.31	ND	0.31	ND	ND	0.110	8.91	0.32
2252-84-8	1,1,1,2,2,3,3-Heptafluoropropane	ND	0.34	ND	0.31	ND	0.33	ND	0.33	0.49	0.31	ND	0.31	ND	0.35	0.59	0.31	ND	0.31	ND	ND	0.112	6.84	0.32
811-97-2	1,1,1,2-Tetrafluoroethane	ND	0.35	ND	0.33	ND	0.35	ND	0.35	ND	0.33	ND	0.33	ND	0.36	ND	0.33	ND	0.33	ND	ND	0.117	4.12	0.34
420-46-2	1,1,1-trifluoroethane	ND	0.35	ND	0.33	ND	0.35	ND	0.35	ND	0.33	ND	0.33	ND	0.36	ND	0.33	ND	0.33	ND	ND	0.118	3.35	0.34
75-45-6	Chlorodifluoromethane	0.48	0.25	0.26	0.24	ND	0.25	0.38	0.25	0.48	0.24	ND	0.24	0.47	0.26	0.35	0.24	0.25	0.24	0.39	ND	0.085	3.50	0.24
75-72-9	Chlorotrifluoromethane	ND	0.38	ND	0.35	ND	0.38	ND	0.38	ND	0.36	ND	0.36	ND	0.39	ND	0.36	ND	0.36	ND	ND	0.128	4.20	0.37
115-25-3	1,1,2,2,3,3,4,4-Octafluorocyclobutane	ND	0.33	ND	0.31	ND	0.33	ND	0.33	ND	0.31	ND	0.31	ND	0.34	ND	0.31	ND	0.31	ND	ND	0.111	7.95	0.32
559-40-0	Octafluorocyclopentene	ND	0.14	ND	0.12	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.14	ND	0.13	ND	0.13	ND	ND	0.045	8.44	0.13
75-69-4	Trichlorofluoromethane	0.66	0.47	0.51	0.44	ND	0.47	ND	0.47	0.71	0.44	ND	0.44	0.61	0.49	0.47	0.44	0.47	0.44	0.56	ND	0.158	5.54	0.45
75-02-5	Vinyl Fluoride ^(a)																							
79-38-9	Chlorotrifluoroethene ^(a)																							
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)																							
76-16-4	Hexafluoroethane	ND	0.14	ND	0.13	ND	0.14	ND	0.14	ND	0.13	ND	0.13	ND	0.15	ND	0.13	ND	0.13			0.048	5.52	0.14
428-59-1	Hexafluoropropene Oxide	ND	6.90	ND	6.38	ND	6.81	ND	6.81	ND	6.47	ND	6.44	ND	7.11	ND	6.47	ND	6.44			2.302	6.68	6.63
75-73-0	Tetrafluoromethane	3.35	0.97	ND	0.89	1.88	0.96	6.31	0.96	ND	0.91	1.64	0.90	5.74	1.00	3.70	0.91	3.83	0.90			0.323	35.39	0.93

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

(b) Red text and pink background indicated detected value.

CAS # - Chemical Abstract Service number; MDL - minimum detection limit; RL - reporting limit; ND - nondetect

Table A-2-8. EPA Data - OTM-50 Emission Calculations

		Run 1A						Run 1B-1						Run 1C					
CAS No.	Analyte	Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m ³)	ND	MDL (µg/m ³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.22	ND	0.22			< 2.81E-05	< 0.22	ND	0.22			< 2.79E-05	< 0.22	ND	0.22			< 2.75E-05
75-46-7	Trifluoromethane	< 0.29	ND	0.29			< 3.70E-05	< 0.29	ND	0.29			< 3.68E-05	< 0.29	ND	0.29			< 3.63E-05
76-19-7	Octafluoropropane	< 0.35	ND	0.35			< 4.47E-05	< 0.35	ND	0.35			< 4.44E-05	< 0.35	ND	0.35			< 4.38E-05
75-10-5	Difluoromethane (HFC-32)	< 0.05	ND	0.05			< 6.39E-06	< 0.05	ND	0.05			< 6.35E-06	< 0.05	ND	0.05			< 6.25E-06
593-53-3	Fluoromethane	< 1.33	ND	1.33			< 1.70E-04	< 1.33	ND	1.33			< 1.69E-04	< 1.33	ND	1.33			< 1.66E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	0.79		0.20			1.01E-04	< 0.2	ND	0.20			< 2.54E-05	< 0.2	ND	0.20			< 2.50E-05
116-15-4	Hexafluoropropene	< 0.15	ND	0.15			< 1.92E-05	< 0.15	ND	0.15			< 1.90E-05	< 0.15	ND	0.15			< 1.88E-05
355-25-9	Decafluorobutane	< 0.65	ND	0.65			< 8.30E-05	< 0.65	ND	0.65			< 8.25E-05	< 0.65	ND	0.65			< 8.13E-05
678-26-2	Dodecafluoropentane	< 0.37	ND	0.37			< 4.73E-05	< 0.37	ND	0.37			< 4.70E-05	< 0.37	ND	0.37			< 4.63E-05
355-42-0	Tetradecafluorohexane	< 1.81	ND	1.81			< 2.31E-04	< 1.81	ND	1.81			< 2.30E-04	< 1.81	ND	1.81			< 2.26E-04
375-61-1	1H-Perfluoropentane	< 0.81	ND	0.81			< 1.03E-04	< 0.81	ND	0.81			< 1.03E-04	< 0.81	ND	0.81			< 1.01E-04
335-57-9	Hexadecafluoroheptane	< 0.32	ND	0.32			< 4.09E-05	< 0.32	ND	0.32			< 4.06E-05	< 0.32	ND	0.32			< 4.00E-05
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 0.32	ND	0.32			< 4.09E-05	< 0.32	ND	0.32			< 4.06E-05	< 0.32	ND	0.32			< 4.00E-05
355-37-3	1H-Perfluorohexane	< 0.31	ND	0.31			< 3.96E-05	< 0.31	ND	0.31			< 3.94E-05	< 0.31	ND	0.31			< 3.88E-05
375-83-7	1H-Perfluoroheptane	< 0.46	ND	0.46			< 5.87E-05	< 0.46	ND	0.46			< 5.84E-05	< 0.46	ND	0.46			< 5.75E-05
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.98	ND	1.98			< 2.53E-04	< 1.98	ND	1.98			< 2.51E-04	< 1.98	ND	1.98			< 2.48E-04
335-65-9	1H-Perfluorooctane	< 1.41	ND	1.41			< 1.80E-04	< 1.41	ND	1.41			< 1.79E-04	< 1.41	ND	1.41			< 1.76E-04
307-34-6	Octadecafluorooctane	< 1.43	ND	1.43			< 1.83E-04	< 1.43	ND	1.43			< 1.82E-04	< 1.43	ND	1.43			< 1.79E-04
375-17-7	1H-Nonafluorobutane	< 0.32	ND	0.32			< 4.09E-05	< 0.32	ND	0.32			< 4.06E-05	< 0.32	ND	0.32			< 4.00E-05
2252-84-8	1H-Heptafluoropropane	< 0.32	ND	0.32			< 4.09E-05	< 0.32	ND	0.32			< 4.06E-05	< 0.32	ND	0.32			< 4.00E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 0.34	ND	0.34			< 4.34E-05	< 0.34	ND	0.34			< 4.32E-05	< 0.34	ND	0.34			< 4.25E-05
420-46-2	1,1,1-Trifluoroethane	< 0.34	ND	0.34			< 4.34E-05	< 0.34	ND	0.34			< 4.32E-05	< 0.34	ND	0.34			< 4.25E-05
75-45-6	Chlorodifluoromethane	0.48		0.24			6.09E-05	0.26		0.24			3.35E-05	< 0.24	ND	0.24			< 3.00E-05
75-72-9	Chlorotrifluoromethane	< 0.37	ND	0.37			< 4.73E-05	< 0.37	ND	0.37			< 4.70E-05	< 0.37	ND	0.37			< 4.63E-05
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.32	ND	0.32			< 4.09E-05	< 0.32	ND	0.32			< 4.06E-05	< 0.32	ND	0.32			< 4.00E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 0.13	ND	0.13			< 1.66E-05	< 0.13	ND	0.13			< 1.65E-05	< 0.13	ND	0.13			< 1.63E-05
75-69-4	Trichlorofluoromethane	0.66		0.45			8.39E-05	0.51		0.45			6.51E-05	< 0.45	ND	0.45			< 5.63E-05
75-02-5	Vinyl Fluoride ^(a)																		
79-38-9	Chlorotrifluoroethene ^(a)																		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)																		
76-16-4	Hexafluoroethane	< 0.14	ND	0.14			< 1.79E-05	< 0.14	ND	0.14			< 1.78E-05	< 0.14	ND	0.14			< 1.75E-05
428-59-1	Hexafluoropropylene oxide	< 6.63	ND	6.63			< 8.47E-04	< 6.63	ND	6.63			< 8.42E-04	< 6.63	ND	6.63			< 8.29E-04
75-73-0	Tetrafluoromethane	< 0.93	ND	0.93			< 1.19E-04	< 0.93	ND	0.93			< 1.18E-04	< 0.93	ND	0.93			< 1.16E-04
	Subtotal - Non-detect	22.10					2.82E-03	22.3					2.83E-03	22.99					2.87E-03
	Subtotal - Detected	1.93					2.46E-04	0.78					9.86E-05	0.00					0.00E+00
	Grand Total	< 24.03					< 3.07E-03	< 23.0769					< 2.93E-03	< 22.99					< 2.87E-03
	Stack Gas Flow Rate - Q (dscfm)						34,095						33,892						33,382

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

(b) Red text and pink background indicated detected value.

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-8. EPA Data - OTM-50 Emission Calculations

CAS No.	Analyte	Run 2A						Run 2B						Run 2C					
		Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.22	ND	0.22			< 2.65E-05	< 0.22	ND	0.22			< 2.61E-05	< 0.22	ND	0.22			< 2.69E-05
75-46-7	Trifluoromethane	< 0.29	ND	0.29			< 3.49E-05	< 0.29	ND	0.29			< 3.45E-05	< 0.29	ND	0.29			< 3.54E-05
76-19-7	Octafluoropropane	< 0.35	ND	0.35			< 4.21E-05	< 0.35	ND	0.35			< 4.16E-05	< 0.35	ND	0.35			< 4.28E-05
75-10-5	Difluoromethane (HFC-32)	< 0.05	ND	0.05			< 6.01E-06	< 0.05	ND	0.05			< 5.94E-06	< 0.05	ND	0.05			< 6.11E-06
593-53-3	Fluoromethane	< 1.33	ND	1.33			< 1.60E-04	< 1.33	ND	1.33			< 1.58E-04	< 1.33	ND	1.33			< 1.63E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 0.2	ND	0.20			< 2.40E-05	< 0.2	ND	0.20			< 2.38E-05	< 0.2	ND	0.20			< 2.44E-05
116-15-4	Hexafluoropropene	< 0.15	ND	0.15			< 1.80E-05	< 0.15	ND	0.15			< 1.78E-05	< 0.15	ND	0.15			< 1.83E-05
355-25-9	Decafluorobutane	< 0.65	ND	0.65			< 7.82E-05	< 0.65	ND	0.65			< 7.72E-05	< 0.65	ND	0.65			< 7.94E-05
678-26-2	Dodecafluoropentane	< 0.37	ND	0.37			< 4.45E-05	< 0.37	ND	0.37			< 4.40E-05	< 0.37	ND	0.37			< 4.52E-05
355-42-0	Tetradecafluorohexane	< 1.81	ND	1.81			< 2.18E-04	< 1.81	ND	1.81			< 2.15E-04	< 1.81	ND	1.81			< 2.21E-04
375-61-1	1H-Perfluoropentane	< 0.81	ND	0.81			< 9.74E-05	< 0.81	ND	0.81			< 9.62E-05	< 0.81	ND	0.81			< 9.90E-05
335-57-9	Hexadecafluoroheptane	< 0.32	ND	0.32			< 3.85E-05	< 0.32	ND	0.32			< 3.80E-05	< 0.32	ND	0.32			< 3.91E-05
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 0.32	ND	0.32			< 3.85E-05	< 0.32	ND	0.32			< 3.80E-05	< 0.32	ND	0.32			< 3.91E-05
355-37-3	1H-Perfluorohexane	< 0.31	ND	0.31			< 3.73E-05	< 0.31	ND	0.31			< 3.68E-05	< 0.31	ND	0.31			< 3.79E-05
375-83-7	1H-Perfluoroheptane	< 0.46	ND	0.46			< 5.53E-05	< 0.46	ND	0.46			< 5.47E-05	< 0.46	ND	0.46			< 5.62E-05
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.98	ND	1.98			< 2.38E-04	< 1.98	ND	1.98			< 2.35E-04	< 1.98	ND	1.98			< 2.42E-04
335-65-9	1H-Perfluorooctane	< 1.41	ND	1.41			< 1.70E-04	< 1.41	ND	1.41			< 1.68E-04	< 1.41	ND	1.41			< 1.72E-04
307-34-6	Octadecafluorooctane	< 1.43	ND	1.43			< 1.72E-04	< 1.43	ND	1.43			< 1.70E-04	< 1.43	ND	1.43			< 1.75E-04
375-17-7	1H-Nonafluorobutane	< 0.32	ND	0.32			< 3.85E-05	1.64		0.32			1.95E-04	< 0.32	ND	0.32			< 3.91E-05
2252-84-8	1H-Heptafluoropropane	< 0.32	ND	0.32			< 3.85E-05	0.49		0.32			5.81E-05	< 0.32	ND	0.32			< 3.91E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 0.34	ND	0.34			< 4.09E-05	< 0.34	ND	0.34			< 4.04E-05	< 0.34	ND	0.34			< 4.16E-05
420-46-2	1,1,1-Trifluoroethane	< 0.34	ND	0.34			< 4.09E-05	< 0.34	ND	0.34			< 4.04E-05	< 0.34	ND	0.34			< 4.16E-05
75-45-6	Chlorodifluoromethane	0.38		0.24			4.53E-05	0.48		0.24			5.67E-05	< 0.24	ND	0.24			< 2.93E-05
75-72-9	Chlorotrifluoromethane	< 0.37	ND	0.37			< 4.45E-05	< 0.37	ND	0.37			< 4.40E-05	< 0.37	ND	0.37			< 4.52E-05
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.32	ND	0.32			< 3.85E-05	< 0.32	ND	0.32			< 3.80E-05	< 0.32	ND	0.32			< 3.91E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 0.13	ND	0.13			< 1.56E-05	< 0.13	ND	0.13			< 1.54E-05	< 0.13	ND	0.13			< 1.59E-05
75-69-4	Trichlorofluoromethane	< 0.45	ND	0.45			< 5.41E-05	0.71		0.45			8.44E-05	< 0.45	ND	0.45			< 5.50E-05
75-02-5	Vinyl Fluoride ^(a)																		
79-38-9	Chlorotrifluoroethene ^(a)																		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)																		
76-16-4	Hexafluoroethane	< 0.14	ND	0.14			< 1.68E-05	< 0.14	ND	0.14			< 1.66E-05	< 0.14	ND	0.14			< 1.71E-05
428-59-1	Hexafluoropropylene oxide	< 6.63	ND	6.63			< 7.97E-04	< 6.63	ND	6.63			< 7.88E-04	< 6.63	ND	6.63			< 8.10E-04
75-73-0	Tetrafluoromethane	< 0.93	ND	0.93			< 1.12E-04	< 0.93	ND	0.93			< 1.10E-04	< 0.93	ND	0.93			< 1.14E-04
	Subtotal - Non-detect	22.75					2.74E-03	21.66					2.57E-03	22.99					2.81E-03
	Subtotal - Detected	0.38					4.53E-05	3.32					3.95E-04	0.00					0.00E+00
	Grand Total	< 23.13					< 2.78E-03	< 24.98					< 2.97E-03	< 22.99					< 2.81E-03
	Stack Gas Flow Rate - Q (dscfm)						32,101						31,721						32,631

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

(b) Red text and pink background indicated detected value.

Conversion Factors

60 min/hr

35.3147 ft³/m³

1,000,000 µg/g

453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-8. EPA Data - OTM-50 Emission Calculations

CAS No.	Analyte	Run 3A						Run 3B						Run 3C					
		Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Emission Rate (lb/hr)
116-14-3	Tetrafluoroethene	< 0.22	ND	0.22			< 2.72E-05	< 0.22	ND	0.22			< 2.63E-05	< 0.22	ND	0.22			< 2.69E-05
75-46-7	Trifluoromethane	< 0.29	ND	0.29			< 3.59E-05	< 0.29	ND	0.29			< 3.46E-05	< 0.29	ND	0.29			< 3.55E-05
76-19-7	Octafluoropropane	< 0.35	ND	0.35			< 4.33E-05	< 0.35	ND	0.35			< 4.18E-05	< 0.35	ND	0.35			< 4.29E-05
75-10-5	Difluoromethane (HFC-32)	< 0.05	ND	0.05			< 6.19E-06	< 0.05	ND	0.05			< 5.97E-06	< 0.05	ND	0.05			< 6.12E-06
593-53-3	Fluoromethane	< 1.33	ND	1.33			< 1.65E-04	< 1.33	ND	1.33			< 1.59E-04	< 1.33	ND	1.33			< 1.63E-04
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 0.2	ND	0.20			< 2.48E-05	< 0.2	ND	0.20			< 2.39E-05	< 0.2	ND	0.20			< 2.45E-05
116-15-4	Hexafluoropropene	< 0.15	ND	0.15			< 1.86E-05	< 0.15	ND	0.15			< 1.79E-05	< 0.15	ND	0.15			< 1.84E-05
355-25-9	Decafluorobutane	< 0.65	ND	0.65			< 8.04E-05	< 0.65	ND	0.65			< 7.76E-05	< 0.65	ND	0.65			< 7.96E-05
678-26-2	Dodecafluoropentane	< 0.37	ND	0.37			< 4.58E-05	< 0.37	ND	0.37			< 4.42E-05	< 0.37	ND	0.37			< 4.53E-05
355-42-0	Tetradecafluorohexane	< 1.81	ND	1.81			< 2.24E-04	< 1.81	ND	1.81			< 2.16E-04	< 1.81	ND	1.81			< 2.22E-04
375-61-1	1H-Perfluoropentane	< 0.81	ND	0.81			< 1.00E-04	< 0.81	ND	0.81			< 9.67E-05	< 0.81	ND	0.81			< 9.92E-05
335-57-9	Hexadecafluoroheptane	< 0.32	ND	0.32			< 3.96E-05	< 0.32	ND	0.32			< 3.82E-05	< 0.32	ND	0.32			< 3.92E-05
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 0.32	ND	0.32			< 3.96E-05	< 0.32	ND	0.32			< 3.82E-05	< 0.32	ND	0.32			< 3.92E-05
355-37-3	1H-Perfluorohexane	< 0.31	ND	0.31			< 3.84E-05	< 0.31	ND	0.31			< 3.70E-05	< 0.31	ND	0.31			< 3.80E-05
375-83-7	1H-Perfluoroheptane	< 0.46	ND	0.46			< 5.69E-05	< 0.46	ND	0.46			< 5.49E-05	< 0.46	ND	0.46			< 5.63E-05
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.98	ND	1.98			< 2.45E-04	< 1.98	ND	1.98			< 2.36E-04	< 1.98	ND	1.98			< 2.42E-04
335-65-9	1H-Perfluorooctane	< 1.41	ND	1.41			< 1.74E-04	< 1.41	ND	1.41			< 1.68E-04	< 1.41	ND	1.41			< 1.73E-04
307-34-6	Octadecafluorooctane	< 1.43	ND	1.43			< 1.77E-04	< 1.43	ND	1.43			< 1.71E-04	< 1.43	ND	1.43			< 1.75E-04
375-17-7	1H-Nonafluorobutane	0.92		0.32			1.13E-04	< 0.32	ND	0.32			< 3.82E-05	< 0.32	ND	0.32			< 3.92E-05
2252-84-8	1H-Heptafluoropropane	< 0.32	ND	0.32			< 3.96E-05	0.59		0.32			6.99E-05	< 0.32	ND	0.32			< 3.92E-05
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 0.34	ND	0.34			< 4.21E-05	< 0.34	ND	0.34			< 4.06E-05	< 0.34	ND	0.34			< 4.16E-05
420-46-2	1,1,1-Trifluoroethane	< 0.34	ND	0.34			< 4.21E-05	< 0.34	ND	0.34			< 4.06E-05	< 0.34	ND	0.34			< 4.16E-05
75-45-6	Chlorodifluoromethane	0.47		0.24			5.81E-05	0.35		0.24			4.15E-05	0.25		0.24			3.03E-05
75-72-9	Chlorotrifluoromethane	< 0.37	ND	0.37			< 4.58E-05	< 0.37	ND	0.37			< 4.42E-05	< 0.37	ND	0.37			< 4.53E-05
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.32	ND	0.32			< 3.96E-05	< 0.32	ND	0.32			< 3.82E-05	< 0.32	ND	0.32			< 3.92E-05
559-40-0	Octafluorocyclopentene (FC-C1418)	< 0.13	ND	0.13			< 1.61E-05	< 0.13	ND	0.13			< 1.55E-05	< 0.13	ND	0.13			< 1.59E-05
75-69-4	Trichlorofluoromethane	0.61		0.45			7.51E-05	0.47		0.45			5.56E-05	0.47		0.45			5.75E-05
75-02-5	Vinyl Fluoride ^(a)																		
79-38-9	Chlorotrifluoroethene ^(a)																		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)																		
76-16-4	Hexafluoroethane	< 0.14	ND	0.14			< 1.73E-05	< 0.14	ND	0.14			< 1.67E-05	< 0.14	ND	0.14			< 1.71E-05
428-59-1	Hexafluoropropylene oxide	< 6.63	ND	6.63			< 8.21E-04	< 6.63	ND	6.63			< 7.92E-04	< 6.63	ND	6.63			< 8.12E-04
75-73-0	Tetrafluoromethane	< 0.93	ND	0.93			< 1.15E-04	< 0.93	ND	0.93			< 1.11E-04	< 0.93	ND	0.93			< 1.14E-04
	Subtotal - Non-detect	21.98					2.72E-03	21.98					2.62E-03	22.30					2.73E-03
	Subtotal - Detected	1.99					2.47E-04	1.40					1.67E-04	0.72					8.78E-05
	Grand Total	< 23.97					< 2.97E-03	< 23.38					< 2.79E-03	< 23.02					< 2.82E-03
	Stack Gas Flow Rate - Q (dscfm)						33,040						31,878						32,687

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

(b) Red text and pink background indicated detected value.

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-8. EPA Data - OTM-50 Emission Calculations

CAS No. Analyte		QA - Pre-Test Blank					QA - Post-test Blank				
		Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag	Result (µg/m³)	ND	MDL (µg/m³)	Lab Flag	DV Flag
116-14-3	Tetrafluoroethene	< 0.22	ND	0.22			< 0.22	ND	0.22		
75-46-7	Trifluoromethane	< 0.29	ND	0.29			< 0.29	ND	0.29		
76-19-7	Octafluoropropane	< 0.35	ND	0.35			< 0.35	ND	0.35		
75-10-5	Difluoromethane (HFC-32)	< 0.05	ND	0.05			< 0.05	ND	0.05		
593-53-3	Fluoromethane	< 1.33	ND	1.33			< 1.33	ND	1.33		
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)	< 0.2	ND	0.20			< 0.2	ND	0.20		
116-15-4	Hexafluoropropene	< 0.15	ND	0.15			< 0.15	ND	0.15		
355-25-9	Decafluorobutane	< 0.65	ND	0.65			< 0.65	ND	0.65		
678-26-2	Dodecafluoropentane	< 0.37	ND	0.37			< 0.37	ND	0.37		
355-42-0	Tetradecafluorohexane	< 1.81	ND	1.81			< 1.81	ND	1.81		
375-61-1	1H-Perfluoropentane	< 0.81	ND	0.81			< 0.81	ND	0.81		
335-57-9	Hexadecafluoroheptane	< 0.32	ND	0.32			< 0.32	ND	0.32		
3330-15-2	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	< 0.32	ND	0.32			< 0.32	ND	0.32		
355-37-3	1H-Perfluorohexane	< 0.31	ND	0.31			< 0.31	ND	0.31		
375-83-7	1H-Perfluoroheptane	< 0.46	ND	0.46			< 0.46	ND	0.46		
3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane (E2)	< 1.98	ND	1.98			< 1.98	ND	1.98		
335-65-9	1H-Perfluorooctane	< 1.41	ND	1.41			< 1.41	ND	1.41		
307-34-6	Octadecafluorooctane	< 1.43	ND	1.43			< 1.43	ND	1.43		
375-17-7	1H-Nonafluorobutane	< 0.32	ND	0.32			< 0.32	ND	0.32		
2252-84-8	1H-Heptafluoropropane	< 0.32	ND	0.32			< 0.32	ND	0.32		
811-97-2	Ethane, 1,1,1,2-tetrafluoro-	< 0.34	ND	0.34			< 0.34	ND	0.34		
420-46-2	1,1,1-Trifluoroethane	< 0.34	ND	0.34			< 0.34	ND	0.34		
75-45-6	Chlorodifluoromethane	0.39		0.24			< 0.24	ND	0.24		
75-72-9	Chlorotrifluoromethane	< 0.37	ND	0.37			< 0.37	ND	0.37		
115-25-3	Octafluorocyclobutane (FC-C318)	< 0.32	ND	0.32			< 0.32	ND	0.32		
559-40-0	Octafluorocyclopentene (FC-C1418)	< 0.13	ND	0.13			< 0.13	ND	0.13		
75-69-4	Trichlorofluoromethane	0.56		0.45			< 0.45	ND	0.45		
75-02-5	Vinyl Fluoride ^(a)										
79-38-9	Chlorotrifluoroethene ^(a)										
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane ^(a)										
76-16-4	Hexafluoroethane	< 0.14	ND	0.14			< 0.14	ND	0.14		
428-59-1	Hexafluoropropylene oxide	< 6.63	ND	6.63			< 6.63	ND	6.63		
75-73-0	Tetrafluoromethane	< 0.93	ND	0.93			< 0.93	ND	0.93		
	Subtotal - Non-detect	22.30					22.99				
	Subtotal - Detected	0.94					0.00				
	Grand Total	< 23.24					< 22.99				
	Stack Gas Flow Rate - Q (dscfm)										

(a) Compound is not a target analyte listed in OTM-50. It was reported by Eurofins but not reported by EPA.

(b) Red text and pink background indicated detected value.

Conversion Factors

60 min/hr
35.3147 ft³/m³
1,000,000 µg/g
453.59 g/lb

ER = C µg/dscm x Qs dscfm x 60 min/hr
35.3147 ft3/m3 x 1,000,000 µg/g x 453.59 g/lb

Table A-2-9. Hexafluoroethane (C₂F₆) DRE Calculations

Parameter	Units	Run 1C Values	Run 2C Values	Run 3C Values	Notes and Data Sources
Stack Gas Flow Rate	scfm	34,095	32,101	33,040	Appendix H, Alliance Source Test Report, Table 2-1.
Stack Gas Flow Rate	lb-moles/hr	5,308	4,998	5,144	Calculation
C ₂ F ₆ Spiking Rate	lb/hr	12.40	44.07	44.64	Appendix F, SSI Spiking Report, Table 1.
Eurofins Data (OTM-45)					
C ₂ F ₆ Emission Concentration	ppb	<0.0939	<0.0927	<0.0939	Eurofins Electronic Data Deliverable 140-39565-1
C ₂ F ₆ Emission Concentration	µg/m ³	<0.530	<0.523	<0.530	Eurofins Electronic Data Deliverable 140-39565-1
C ₂ F ₆ Emission Rate	lb/hr	<6.63 E-05	<6.39 E-05	<6.49 E-05	Table A-2-4.
C ₂ F ₆ DRE	%	>99.99947	>99.99985	>99.99985	Calculation
EPA Data (OTM-45)					
C ₂ F ₆ Emission Concentration	ppb	<0.024	<0.024	<0.024	EPA Data Deliverable
C ₂ F ₆ Emission Concentration	µg/m ³	<0.14	<0.14	<0.14	Table A-2-8.
C ₂ F ₆ Emission Rate	lb/hr	<1.75 E-05	<1.71 E-05	<1.71 E-05	Table A-2-8.
C ₂ F ₆ DRE	%	>99.99986	>99.99996	>99.99996	Calculation
Spectrum Data (FTIR)					
C ₂ F ₆ Emission Concentration	ppb	<0.62	1.21	<0.62	Appendix G, Spectrum FTIR Monitoring Report, Table 1-1 and Table 1-3.
C ₂ F ₆ Emission Concentration	µg/m ³	<3.50	6.83	<3.50	Calculation
C ₂ F ₆ Emission Rate	lb/hr	<4.54 E-04	8.34 E-04	<4.40 E-04	Calculation
C ₂ F ₆ DRE	%	>99.99634	99.99811	>99.99901	Calculation

Constants

385.4 scfm/lb-mole
60 min/hr
1,000,000 parts per million parts
1,000,000,000 parts per billion parts

Molecular Weights

C 12.001 lb/lb-mole
F 18.9984 lb/lb-mole
C₂F₆ 137.9924 lb/lb-mole

Appendix A-3

EPA Method 0010

Data Reduction

Appendix A-3 Index

Table A-3-1. Method 0010 Emissions Summary

Table A-3-2. Run 1A - Method 0010 Emissions Calculations

Table A-3-3. Run 2A - Method 0010 Emissions Calculations

Table A-3-4. Run 3A - Method 0010 Emissions Calculations

Table A-3-5. Method 0010 Blank Train Analytical Results

Table A-3-6. Method 0010 Reagent Blanks Analytical Results

Table A-3-7. Method 0010 Media Checks Analytical Results

Table A-3-8. Method 0010 Method Blanks Analytical Results

Table A-3-1. Method 0010 Emissions Summary

CAS No.	Analyte	Run 1A Concentration (µg/dscm)	Run 2A Concentration (µg/dscm)	Run 3A Concentration (µg/dscm)	Run 1A Emission Rate (lb/hr)	Run 2A Emission Rate (lb/hr)	Run 3A Emission Rate (lb/hr)
83-32-9	Acenaphthene	< 1.19 ND	< 1.19 ND	< 1.08 ND	< 1.58E-04	< 1.50E-04	< 1.19E-04
208-96-8	Acenaphthylene	< 1.78 ND	< 1.77 ND	< 1.61 ND	< 2.35E-04	< 2.24E-04	< 1.77E-04
98-86-2	Acetophenone	< 1.83 ND	< 1.82 ND	< 1.65 ND	< 2.42E-04	< 2.30E-04	< 1.82E-04
62-53-3	Aniline	< 2.21 ND	< 2.20 ND	< 2.00 ND	< 2.92E-04	< 2.78E-04	< 2.20E-04
120-12-7	Anthracene	< 1.96 ND	< 1.95 ND	< 1.77 ND	< 2.59E-04	< 2.46E-04	< 1.95E-04
56-55-3	Benzo[a]anthracene	< 1.37 ND	< 1.37 ND	< 1.24 ND	< 1.81E-04	< 1.73E-04	< 1.36E-04
50-32-8	Benzo[a]pyrene	< 1.88 ND	< 1.88 ND	< 1.70 ND	< 2.48E-04	< 2.37E-04	< 1.87E-04
205-99-2	Benzo[b]fluoranthene	< 1.52 ND	< 1.52 ND	< 1.38 ND	< 2.01E-04	< 1.92E-04	< 1.52E-04
191-24-2	Benzo[g,h,i]perylene	< 1.65 ND	< 1.65 ND	< 1.49 ND	< 2.18E-04	< 2.08E-04	< 1.64E-04
207-08-9	Benzo[k]fluoranthene	< 1.30 ND	< 1.29 ND	< 1.17 ND	< 1.71E-04	< 1.63E-04	< 1.29E-04
100-51-6	Benzyl alcohol	< 2.85 ND	< 2.84 ND	< 2.57 ND	< 3.76E-04	< 3.58E-04	< 2.83E-04
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
111-91-1	Bis(2-chloroethoxy)methane	< 1.27 ND	< 1.27 ND	< 1.15 ND	< 1.68E-04	< 1.60E-04	< 1.26E-04
111-44-4	Bis(2-chloroethyl)ether	< 2.41 ND	< 2.41 ND	< 2.18 ND	< 3.19E-04	< 3.04E-04	< 2.40E-04
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
461-96-1	1-Bromo-3,5-difluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
1072-85-1	1-Bromo-2-fluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
460-00-4	4-Bromofluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
341-41-3	1-Bromo-4-fluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
315-56-0	1-Bromo-5-fluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
324-41-4	2-Bromo-6-fluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
27041-17-4	2-Bromoheptafluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
344-04-7	Bromopentafluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
85-68-7	Butyl benzyl phthalate	< 2.13 ND	< 2.27	< 2.06	< 2.82E-04	< 2.87E-04	< 2.27E-04
86-74-8	Carbazole	< 2.11 ND	< 2.10 ND	< 1.91 ND	< 2.79E-04	< 2.65E-04	< 2.10E-04
106-47-8	4-Chloroaniline	< 2.67 ND	< 2.66 ND	< 2.41 ND	< 3.53E-04	< 3.36E-04	< 2.65E-04
625-98-9	1-Chloro-3-fluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
352-33-0	1-Chloro-4-fluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
1996-41-4	2-Chloro-4-fluorophenol	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
2613-23-2	3-Chloro-4-fluorophenol	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03	< 9.59E-04	< 7.58E-04
59-50-7	4-Chloro-3-methylphenol	< 1.35 ND	< 1.34 ND	< 1.22 ND	< 1.78E-04	< 1.69E-04	< 1.34E-04
91-58-7	2-Chloronaphthalene	< 2.29 ND	< 2.28 ND	< 2.07 ND	< 3.02E-04	< 2.88E-04	< 2.27E-04
95-57-8	2-Chlorophenol	< 1.73 ND	< 1.72 ND	< 1.56 ND	< 2.28E-04	< 2.17E-04	< 1.72E-04
7005-72-3	4-Chlorophenyl phenyl ether	< 1.30 ND	< 1.29 ND	< 1.17 ND	< 1.71E-04	< 1.63E-04	< 1.29E-04
218-01-9	Chrysene	< 1.24 ND	< 1.24 ND	< 1.13 ND	< 1.65E-04	< 1.57E-04	< 1.24E-04

Table A-3-1. Method 0010 Emissions Summary

CAS No.	Analyte	Run 1A Concentration (µg/dscm)	Run 2A Concentration (µg/dscm)	Run 3A Concentration (µg/dscm)	Run 1A Emission Rate (lb/hr)	Run 2A Emission Rate (lb/hr)	Run 3A Emission Rate (lb/hr)
434-90-2	Decafluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
53-70-3	Dibenz(a,h)anthracene	< 1.88 ND	< 1.88 ND	< 1.70 ND	< 2.48E-04 <	2.37E-04 <	1.87E-04
132-64-9	Dibenzofuran	< 1.42 ND	< 1.42 ND	< 1.29 ND	< 1.88E-04 <	1.79E-04 <	1.42E-04
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
1435-51-4	1,3-Dibromo-5-fluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
5576-19-2	2,2'-Dibromooctafluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
827-08-7	1,2-Dibromotetrafluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
1559-87-1	1,3-Dibromotetrafluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
95-50-1	1,2-Dichlorobenzene	< 1.96 ND	< 1.95 ND	< 1.77 ND	< 2.59E-04 <	2.46E-04 <	1.95E-04
541-73-1	1,3-Dichlorobenzene	< 2.51 ND	< 2.51 ND	< 2.27 ND	< 3.32E-04 <	3.16E-04 <	2.50E-04
106-46-7	1,4-Dichlorobenzene	< 1.98 ND	< 1.98 ND	< 1.79 ND	< 2.62E-04 <	2.49E-04 <	1.97E-04
120-83-2	2,4-Dichlorophenol	< 1.63 ND	< 1.62 ND	< 1.47 ND	< 2.15E-04 <	2.05E-04 <	1.62E-04
117-81-7	Di (2-ethylhexyl)phthalate	< 14.73 ND	< 14.70 ND	< 13.32 ND	< 1.95E-03 <	1.85E-03 <	1.47E-03
84-66-2	Diethyl phthalate	< 2.35	< 1.72 ND	< 1.65	< 3.11E-04 <	2.17E-04 <	1.82E-04
388-82-9	2,2'-Difluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
37847-52-2	2,4-Difluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
396-64-5	3,3'-Difluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
398-23-2	4,4'-Difluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
105-67-9	2,4-Dimethylphenol	< 1.88 ND	< 1.88 ND	< 1.70 ND	< 2.48E-04 <	2.37E-04 <	1.87E-04
131-11-3	Dimethyl phthalate	< 1.47 ND	< 1.47 ND	< 1.33 ND	< 1.95E-04 <	1.85E-04 <	1.47E-04
84-74-2	Di-n-butyl phthalate	< 2.59 ND	< 2.59 ND	< 3.18	< 3.43E-04 <	3.26E-04 <	3.50E-04
534-52-1	4,6-Dinitro-2-methylphenol	< 3.56 ND	< 3.55 ND	< 3.22 ND	< 4.70E-04 <	4.47E-04 <	3.54E-04
51-28-5	2,4-Dinitrophenol	< 7.57 ND	< 7.55 ND	< 6.84 ND	< 1.00E-03 <	9.52E-04 <	7.53E-04
121-14-2	2,4-Dinitrotoluene	< 1.91 ND	< 1.90 ND	< 1.72 ND	< 2.52E-04 <	2.40E-04 <	1.90E-04
606-20-2	2,6-Dinitrotoluene	< 1.65 ND	< 1.65 ND	< 1.54	< 2.18E-04 <	2.08E-04 <	1.69E-04
117-84-0	Di-n-octyl phthalate	< 2.92 ND	< 2.91 ND	< 2.64 ND	< 3.86E-04 <	3.68E-04 <	2.91E-04
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 1.68 ND	< 1.67 ND	< 1.52 ND	< 2.22E-04 <	2.11E-04 <	1.67E-04
206-44-0	Fluoranthene	< 1.93 ND	< 1.93 ND	< 1.75 ND	< 2.55E-04 <	2.43E-04 <	1.92E-04
86-73-7	Fluorene	< 1.57 ND	< 1.57 ND	< 1.42 ND	< 2.08E-04 <	1.98E-04 <	1.57E-04
324-74-3	4-Fluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
343-43-1	2-Fluorofluorene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
321-38-0	1-Fluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
323-09-1	2-Fluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
371-41-5	4-Fluorophenol	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
118-74-1	Hexachlorobenzene	< 1.57 ND	< 1.57 ND	< 1.42 ND	< 2.08E-04 <	1.98E-04 <	1.57E-04
87-68-3	Hexachlorobutadiene	< 2.57 ND	< 2.56 ND	< 2.32 ND	< 3.39E-04 <	3.23E-04 <	2.55E-04
77-47-4	Hexachlorocyclopentadiene	< 2.31 ND	< 2.31 ND	< 2.09 ND	< 3.06E-04 <	2.91E-04 <	2.30E-04
67-72-1	Hexachloroethane	< 2.21 ND	< 2.20 ND	< 2.00 ND	< 2.92E-04 <	2.78E-04 <	2.20E-04
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.13 ND	< 2.13 ND	< 1.93 ND	< 2.82E-04 <	2.68E-04 <	2.12E-04

Table A-3-1. Method 0010 Emissions Summary

CAS No.	Analyte	Run 1A Concentration (µg/dscm)	Run 2A Concentration (µg/dscm)	Run 3A Concentration (µg/dscm)	Run 1A Emission Rate (lb/hr)	Run 2A Emission Rate (lb/hr)	Run 3A Emission Rate (lb/hr)
78-59-1	Isophorone	< 1.37 ND	< 1.37 ND	< 1.24 ND	< 1.81E-04 <	1.73E-04 <	1.36E-04
91-57-6	2-Methylnaphthalene	< 1.73 ND	< 1.72 ND	< 1.56 ND	< 2.28E-04 <	2.17E-04 <	1.72E-04
95-48-7	2-Methylphenol	< 1.68 ND	< 1.67 ND	< 1.52 ND	< 2.22E-04 <	2.11E-04 <	1.67E-04
15831-10-4	3 & 4 Methylphenol	< 1.93 ND	< 1.93 ND	< 1.75 ND	< 2.55E-04 <	2.43E-04 <	1.92E-04
91-20-3	Naphthalene	< 1.47 ND	< 1.47 ND	< 1.33	< 1.95E-04 <	1.85E-04 <	1.47E-04
88-74-4	2-Nitroaniline	< 2.03 ND	< 2.03 ND	< 1.84 ND	< 2.69E-04 <	2.56E-04 <	2.02E-04
99-09-2	3-Nitroaniline	< 2.54 ND	< 2.53 ND	< 2.30 ND	< 3.36E-04 <	3.20E-04 <	2.53E-04
100-01-6	4-Nitroaniline	< 2.54 ND	< 2.53 ND	< 2.30 ND	< 3.36E-04 <	3.20E-04 <	2.53E-04
98-95-3	Nitrobenzene	< 1.78 ND	< 1.77 ND	< 1.61 ND	< 2.35E-04 <	2.24E-04 <	1.77E-04
88-75-5	2-Nitrophenol	< 2.01 ND	< 2.00 ND	< 1.81 ND	< 2.65E-04 <	2.52E-04 <	2.00E-04
100-02-7	4-Nitrophenol	< 3.81 ND	< 3.80 ND	< 3.44 ND	< 5.04E-04 <	4.79E-04 <	3.79E-04
62-75-9	N-Nitrosodimethylamine	< 10.53	< 8.26	< 16.17	< 1.39E-03 <	1.04E-03 <	1.78E-03
621-64-7	N-Nitrosodi-n-propylamine	< 2.18 ND	< 2.18 ND	< 1.98 ND	< 2.89E-04 <	2.75E-04 <	2.17E-04
86-30-6	N-Nitrosodiphenylamine	< 1.57 ND	< 1.57 ND	< 1.42 ND	< 2.08E-04 <	1.98E-04 <	1.57E-04
348-51-6	o-Chlorofluorobenzene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
313-72-4	Octafluoronaphthalene	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
108-60-1	2,2'-oxybis[1-chloropropane]	< 1.47 ND	< 1.47 ND	< 1.33 ND	< 1.95E-04 <	1.85E-04 <	1.47E-04
87-86-5	Pentachlorophenol	< 6.60 ND	< 6.59 ND	< 5.97 ND	< 8.73E-04 <	8.31E-04 <	6.57E-04
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 7.62 ND	< 7.60 ND	< 6.89 ND	< 1.01E-03 <	9.59E-04 <	7.58E-04
85-01-8	Phenanthrene	< 1.57 ND	< 1.57 ND	< 1.42 ND	< 2.08E-04 <	1.98E-04 <	1.57E-04
108-95-2	Phenol	< 2.93	< 3.05	< 1.49	< 3.87E-04 <	3.85E-04 <	1.64E-04
129-00-0	Pyrene	< 1.70 ND	< 1.70 ND	< 1.54 ND	< 2.25E-04 <	2.14E-04 <	1.69E-04
110-86-1	Pyridine	< 3.73	< 5.09	< 4.97	< 4.93E-04 <	6.42E-04 <	5.47E-04
120-82-1	1,2,4-Trichlorobenzene	< 1.85 ND	< 1.85 ND	< 1.68 ND	< 2.45E-04 <	2.33E-04 <	1.85E-04
95-95-4	2,4,5-Trichlorophenol	< 1.30 ND	< 1.29 ND	< 1.17 ND	< 1.71E-04 <	1.63E-04 <	1.29E-04
88-06-2	2,4,6-Trichlorophenol	< 2.01 ND	< 2.00 ND	< 1.81 ND	< 2.65E-04 <	2.52E-04 <	2.00E-04
	Subtotal - Non-detect	436.37	434.85	387.48	5.82E-02	5.55E-02	4.35E-02
	Subtotal - Detected	19.54	18.67	32.39	2.05E-03	1.70E-03	2.71E-03
	Grand Total	455.91	453.52	419.87	6.02E-02	5.72E-02	4.62E-02

Red text and pink background indicates a detected value in one or more of the sample fractions.

Table A-3-2. Run 1A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2034,2035 R1A M0010 FILTER,FH SOLVENT RINSE						S-2036,2037 R1A M0010 XAD RESIN,BH SOLVENT RINSE						S-2038,2039 R1A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE						Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag						
83-32-9	Acenaphthene	<	1.50	ND		U	<	1.50	ND		1.50	<	1.70	ND		U	<	1.19	ND	<	1.58E-04	
208-96-8	Acenaphthylene	<	2.10	ND		U	<	2.30	ND		2.30	<	2.60	ND		U	<	1.78	ND	<	2.35E-04	
98-86-2	Acetophenone	<	3.40	ND		U	<	2.60	ND		2.60	<	1.20	ND		U	<	1.83	ND	<	2.42E-04	
62-53-3	Aniline	<	1.80	ND		UJ-	<	4.40	ND		4.40	<	2.50	ND		*-	UJ-	<	2.21	ND	<	2.92E-04
120-12-7	Anthracene	<	2.50	ND		U	<	2.60	ND		2.60	<	2.60	ND		U	<	1.96	ND	<	2.59E-04	
56-55-3	Benzo[a]anthracene	<	1.70	ND		U	<	2.00	ND		2.00	<	1.70	ND		U	<	1.37	ND	<	1.81E-04	
50-32-8	Benzo[a]pyrene	<	2.20	ND		U	<	2.60	ND		2.60	<	2.60	ND		U	<	1.88	ND	<	2.48E-04	
205-99-2	Benzo[b]fluoranthene	<	2.00	ND		U	<	1.90	ND		1.90	<	2.10	ND		U	<	1.52	ND	<	2.01E-04	
191-24-2	Benzo[g,h,i]perylene	<	2.00	ND		U	<	2.20	ND		2.20	<	2.30	ND		U	<	1.65	ND	<	2.18E-04	
207-08-9	Benzo[k]fluoranthene	<	1.70	ND		U	<	1.50	ND		1.50	<	1.90	ND		U	<	1.30	ND	<	1.71E-04	
100-51-6	Benzyl alcohol	<	4.60	ND		U	<	4.20	ND		4.20	<	2.40	ND		U	<	2.85	ND	<	3.76E-04	
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
111-91-1	Bis(2-chloroethoxy)methane	<	1.40	ND		U	<	1.80	ND		1.80	<	1.80	ND		U	<	1.27	ND	<	1.68E-04	
111-44-4	Bis(2-chloroethyl)ether	<	3.20	ND		U	<	3.90	ND		3.90	<	2.40	ND		U	<	2.41	ND	<	3.19E-04	
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
461-96-1	1-Bromo-3,5-difluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1072-85-1	1-Bromo-2-fluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
460-00-4	4-Bromofluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
341-41-3	1-Bromo-4-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
315-56-0	1-Bromo-5-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
324-41-4	2-Bromo-6-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
27041-17-4	2-Bromoheptafluoronaphthalene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
344-04-7	Bromopentafluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
85-68-7	Butyl benzyl phthalate	<	1.80	ND		U	<	4.20	ND		4.20	<	2.40	ND		U	<	2.13	ND	<	2.82E-04	
86-74-8	Carbazole	<	2.10	ND		U	<	3.80	ND		3.80	<	2.40	ND		U	<	2.11	ND	<	2.79E-04	
106-47-8	4-Chloroaniline	<	1.80	ND		UJ-	<	4.90	ND		4.90	<	3.80	ND		*-	UJ-	<	2.67	ND	<	3.53E-04
625-98-9	1-Chloro-3-fluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
352-33-0	1-Chloro-4-fluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1996-41-4	2-Chloro-4-fluorophenol	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		UJ-	<	7.62	ND	<	1.01E-03	
2613-23-2	3-Chloro-4-fluorophenol	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		UJ-	<	7.62	ND	<	1.01E-03	
59-50-7	4-Chloro-3-methylphenol	<	1.40	ND		U	<	2.10	ND		2.10	<	1.80	ND		UJ-	<	1.35	ND	<	1.78E-04	
91-58-7	2-Chloronaphthalene	<	2.00	ND		U	<	3.20	ND		3.20	<	3.80	ND		U	<	2.29	ND	<	3.02E-04	
95-57-8	2-Chlorophenol	<	2.80	ND		UJ-	<	1.80	ND		1.80	<	2.20	ND		*-	UJ-	<	1.73	ND	<	2.28E-04
7005-72-3	4-Chlorophenyl phenyl ether	<	1.60	ND		U	<	1.60	ND		1.60	<	1.90	ND		U	<	1.30	ND	<	1.71E-04	
218-01-9	Chrysene	<	1.70	ND		U	<	1.50	ND		1.50	<	1.70	ND		U	<	1.24	ND	<	1.65E-04	
434-90-2	Decafluorobiphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
53-70-3	Dibenz[a,h]anthracene	<	2.40	ND		U	<	2.40	ND		2.40	<	2.60	ND		U	<	1.88	ND	<	2.48E-04	
132-64-9	Dibenzofuran	<	1.80	ND		U	<	1.80	ND		1.80	<	2.00	ND		U	<	1.42	ND	<	1.88E-04	
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1435-51-4	1,3-Dibromo-5-fluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
5576-19-2	2,2'-Dibromooctafluorobiphenyl	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
827-08-7	1,2-Dibromotetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
1559-87-1	1,3-Dibromotetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		10.00	<	10.00	ND		U	<	7.62	ND	<	1.01E-03	
95-50-1	1,2-Dichlorobenzene	<	3.00	ND		U	<	1.80	ND		1.80	<	2.90	ND		U	<	1.96	ND	<	2.59E-04	
541-73-1	1,3-Dichlorobenzene	<	3.00	ND		U	<	3.70	ND		3.70	<	3.20	ND		U	<	2.51	ND	<	3.32E-04	
106-46-7	1,4-Dichlorobenzene	<	3.00	ND		U	<	1.80	ND		1.80	<	3.00	ND		U	<	1.98	ND	<	2.62E-04	
120-83-2	2,4-Dichlorophenol	<	2.70	ND		U	<	1.70	ND		1.70	<	2.00	ND		UJ-	<	1.63	ND	<	2.15E-04	

Table A-3-2. Run 1A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2034,2035 R1A M0010 FILTER,FH SOLVENT RINSE						S-2036,2037 R1A M0010 XAD RESIN,BH SOLVENT RINSE						S-2038,2039 R1A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE						Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag				
117-81-7	Di (2-ethylhexyl)phthalate	< 17.00	ND	17.00		U		< 22.00	ND	22.00		U		< 19.00	ND	19.00		U		< 14.73	ND	< 1.95E-03
84-66-2	Diethyl phthalate	< 1.70	ND	1.70		U		5.65		3.20	J	J		< 1.90	ND	1.90		U		2.35		< 3.11E-04
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
105-67-9	2,4-Dimethylphenol	< 2.80	ND	2.80		UJ-		< 3.10	ND	3.10		UJ-		< 1.50	ND	1.50	*-	UJ-		< 1.88	ND	< 2.48E-04
131-11-3	Dimethyl phthalate	< 1.80	ND	1.80		U		< 1.60	ND	1.60		U		< 2.40	ND	2.40		U		< 1.47	ND	< 1.95E-04
84-74-2	Di-n-butyl phthalate	< 3.20	ND	3.20		U		< 3.60	ND	3.60		U		< 3.40	ND	3.40		U		< 2.59	ND	< 3.43E-04
534-52-1	4,6-Dinitro-2-methylphenol	< 4.20	ND	4.20		U		< 5.60	ND	5.60		UJ-		< 4.20	ND	4.20		UJ-		< 3.56	ND	< 4.70E-04
51-28-5	2,4-Dinitrophenol	< 9.80	ND	9.80		U		< 12.00	ND	12.00		UJ-		< 8.00	ND	8.00		UJ-		< 7.57	ND	< 1.00E-03
121-14-2	2,4-Dinitrotoluene	< 2.20	ND	2.20		U		< 2.90	ND	2.90		U		< 2.40	ND	2.40		U		< 1.91	ND	< 2.52E-04
606-20-2	2,6-Dinitrotoluene	< 1.90	ND	1.90		U		< 2.40	ND	2.40		U		< 2.20	ND	2.20		U		< 1.65	ND	< 2.18E-04
117-84-0	Di-n-octyl phthalate	< 2.30	ND	2.30		U		< 4.60	ND	4.60		U		< 4.60	ND	4.60		U		< 2.92	ND	< 3.86E-04
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.40	ND	2.40		U		< 2.10	ND	2.10		U		< 2.10	ND	2.10		U		< 1.68	ND	< 2.22E-04
206-44-0	Fluoranthene	< 2.30	ND	2.30		U		< 2.80	ND	2.80		U		< 2.50	ND	2.50		U		< 1.93	ND	< 2.55E-04
86-73-7	Fluorene	< 1.90	ND	1.90		U		< 2.10	ND	2.10		U		< 2.20	ND	2.20		U		< 1.57	ND	< 2.08E-04
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U		< 10.00	ND	10.00		UJ-		< 10.00	ND	10.00		UJ-		< 7.62	ND	< 1.01E-03
118-74-1	Hexachlorobenzene	< 1.80	ND	1.80		U		< 2.10	ND	2.10		U		< 2.30	ND	2.30		U		< 1.57	ND	< 2.08E-04
87-68-3	Hexachlorobutadiene	< 3.30	ND	3.30		U		< 2.10	ND	2.10		U		< 4.70	ND	4.70		U		< 2.57	ND	< 3.39E-04
77-47-4	Hexachlorocyclopentadiene	< 3.00	ND	3.00		U		< 2.30	ND	2.30		U		< 3.80	ND	3.80		U		< 2.31	ND	< 3.06E-04
67-72-1	Hexachloroethane	< 3.10	ND	3.10		U		< 1.70	ND	1.70		U		< 3.90	ND	3.90		U		< 2.21	ND	< 2.92E-04
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U		< 2.50	ND	2.50		U		< 3.40	ND	3.40		U		< 2.13	ND	< 2.82E-04
78-59-1	Isophorone	< 1.90	ND	1.90		U		< 2.30	ND	2.30		U		< 1.20	ND	1.20		U		< 1.37	ND	< 1.81E-04
91-57-6	2-Methylnaphthalene	< 3.20	ND	3.20		U		< 1.70	ND	1.70		U		< 1.90	ND	1.90		U		< 1.73	ND	< 2.28E-04
95-48-7	2-Methylphenol	< 2.30	ND	2.30		U		< 1.90	ND	1.90		UJ-		< 2.40	ND	2.40		UJ-		< 1.68	ND	< 2.22E-04
15831-10-4	3 & 4 Methylphenol	< 2.30	ND	2.30		U		< 2.70	ND	2.70		UJ-		< 2.60	ND	2.60		UJ-		< 1.93	ND	< 2.55E-04
91-20-3	Naphthalene	< 1.60	ND	1.60		U		< 2.10	ND	2.10		U		< 2.10	ND	2.10		U		< 1.47	ND	< 1.95E-04
88-74-4	2-Nitroaniline	< 2.40	ND	2.40		U		< 2.80	ND	2.80		U		< 2.80	ND	2.80		U		< 2.03	ND	< 2.69E-04
99-09-2	3-Nitroaniline	< 2.20	ND	2.20		U		< 5.20	ND	5.20		U		< 2.60	ND	2.60		U		< 2.54	ND	< 3.36E-04
100-01-6	4-Nitroaniline	< 2.60	ND	2.60		U		< 4.10	ND	4.10		U		< 3.30	ND	3.30		U		< 2.54	ND	< 3.36E-04
98-95-3	Nitrobenzene	< 3.10	ND	3.10		U		< 1.90	ND	1.90		U		< 2.00	ND	2.00		U		< 1.78	ND	< 2.35E-04
88-75-5	2-Nitrophenol	< 1.80	ND	1.80		UJ-		< 2.90	ND	2.90		UJ-		< 3.20	ND	3.20	*-	UJ-		< 2.01	ND	< 2.65E-04
100-02-7	4-Nitrophenol	< 4.60	ND	4.60		U		< 4.90	ND	4.90		UJ-		< 5.50	ND	5.50		UJ-		< 3.81	ND	< 5.04E-04
62-75-9	N-Nitrosodimethylamine	< 2.00	ND	2.00		U		4.04		1.90	J	J		35.40		2.30		0.00		10.53		< 1.39E-03
621-64-7	N-Nitrosodi-n-propylamine	< 3.80	ND	3.80		U		< 2.40	ND	2.40		U		< 2.40	ND	2.40		U		< 2.18	ND	< 2.89E-04
86-30-6	N-Nitrosodiphenylamine	< 2.00	ND	2.00		U		< 2.20	ND	2.20		U		< 2.00	ND	2.00		U		< 1.57	ND	< 2.08E-04
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.30	ND	2.30		U		< 2.20	ND	2.20		U		< 1.30	ND	1.30		U		< 1.47	ND	< 1.95E-04
87-86-5	Pentachlorophenol	< 12.00	ND	12.00		U		< 9.30	ND	9.30		UJ-		< 4.70	ND	4.70		UJ-		< 6.60	ND	< 8.73E-04
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 10.00	ND	10.00		U		< 7.62	ND	< 1.01E-03
85-01-8	Phenanthrene	< 1.80	ND	1.80		U		< 2.30	ND	2.30		U		< 2.10	ND	2.10		U		< 1.57	ND	< 2.08E-04
108-95-2	Phenol	< 1.30	ND	1.30		U		3.11		2.20	J	UJ-		7.12		2.40	J	J-		2.93		< 3.87E-04
129-00-0	Pyrene	< 2.30	ND	2.30		U		< 2.20	ND	2.20		U		< 2.20	ND	2.20		U		< 1.70	ND	< 2.25E-04
110-86-1	Pyridine	< 4.10	ND	4.10		UJ-		< 4.90	ND	4.90		UJ-		5.67		5.40	J *	J-		3.73		< 4.93E-04
120-82-1	1,2,4-Trichlorobenzene	< 2.90	ND	2.90		U		< 1.80	ND	1.80		U		< 2.60	ND	2.60		U		< 1.85	ND	< 2.45E-04

Table A-3-2. Run 1A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2034,2035 R1A M0010 FILTER,FH SOLVENT RINSE					S-2036,2037 R1A M0010 XAD RESIN,BH SOLVENT RINSE					S-2038,2039 R1A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag			
95-95-4	2,4,5-Trichlorophenol	< 1.50	ND	1.50		U	< 1.60	ND	1.60		UJ-	< 2.00	ND	2.00		UJ-	< 1.30	ND	< 1.71E-04
88-06-2	2,4,6-Trichlorophenol	< 2.20	ND	2.20		U	< 2.80	ND	2.80		UJ-	< 2.90	ND	2.90		UJ-	< 2.01	ND	< 2.65E-04
	Subtotal - Non-detect	574.60					589.50					568.10					436.37		5.82E-02
	Subtotal - Detected	0.00					12.80					48.19					19.54		2.05E-03
	Grand Total	574.60					602.30					616.29					455.91		6.02E-02

Red text and pink background indicates a detected value.

Conversion Factors

60 min/hr
35.31 ft³/m³
1,000,000 µg/g
453.59 g/lb

Stack Gas Flow Rate (dscfm) 35,293
Standard Meter Volume (dscf) 139.02
Standard Meter Volume (dscm) 3.94

Table A-3-3. Run 2A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2040,2041 R2A M0010 FILTER,FH SOLVENT RINSE						S-2042,2043 R2A M0010 XAD RESIN,BH SOLVENT RINSE						S-2044,2045 R2A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE						Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag						
83-32-9	Acenaphthene	<	1.50	ND		U	<	1.50	ND		U	<	1.70	ND		U	<	1.19	ND	<	1.50E-04	
208-96-8	Acenaphthylene	<	2.10	ND		U	<	2.30	ND		U	<	2.60	ND		U	<	1.77	ND	<	2.24E-04	
98-86-2	Acetophenone	<	3.40	ND		U	<	2.60	ND		U	<	1.20	ND		U	<	1.82	ND	<	2.30E-04	
62-53-3	Aniline	<	1.80	ND		UJ-	<	4.40	ND		UJ-	<	2.50	ND		UJ-	<	2.20	ND	<	2.78E-04	
120-12-7	Anthracene	<	2.50	ND		U	<	2.60	ND		U	<	2.60	ND		U	<	1.95	ND	<	2.46E-04	
56-55-3	Benzo[a]anthracene	<	1.70	ND		U	<	2.00	ND		U	<	1.70	ND		U	<	1.37	ND	<	1.73E-04	
50-32-8	Benzo[a]pyrene	<	2.20	ND		U	<	2.60	ND		U	<	2.60	ND		U	<	1.88	ND	<	2.37E-04	
205-99-2	Benzo[b]fluoranthene	<	2.00	ND		U	<	1.90	ND		U	<	2.10	ND		U	<	1.52	ND	<	1.92E-04	
191-24-2	Benzo[g,h,i]perylene	<	2.00	ND		U	<	2.20	ND		U	<	2.30	ND		U	<	1.65	ND	<	2.08E-04	
207-08-9	Benzo[k]fluoranthene	<	1.70	ND		U	<	1.50	ND		U	<	1.90	ND		U	<	1.29	ND	<	1.63E-04	
100-51-6	Benzyl alcohol	<	4.60	ND		U	<	4.20	ND		U	<	2.40	ND		U	<	2.84	ND	<	3.58E-04	
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
111-91-1	Bis(2-chloroethoxy)methane	<	1.40	ND		U	<	1.80	ND		U	<	1.80	ND		U	<	1.27	ND	<	1.60E-04	
111-44-4	Bis(2-chloroethyl)ether	<	3.20	ND		U	<	3.90	ND		U	<	2.40	ND		U	<	2.41	ND	<	3.04E-04	
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
461-96-1	1-Bromo-3,5-difluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1072-85-1	1-Bromo-2-fluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
460-00-4	4-Bromofluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
341-41-3	1-Bromo-4-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
315-56-0	1-Bromo-5-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
324-41-4	2-Bromo-6-fluoronaphthalene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
27041-17-4	2-Bromoheptafluoronaphthalene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
344-04-7	Bromopentafluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
85-68-7	Butyl benzyl phthalate	<	1.80	ND		U	<	4.20	ND		U	<	2.97			J	0.00	<	2.27		<	2.87E-04
86-74-8	Carbazole	<	2.10	ND		U	<	3.80	ND		U	<	2.40	ND		U	<	2.10	ND	<	2.65E-04	
106-47-8	4-Chloroaniline	<	1.80	ND		UJ-	<	4.90	ND		UJ-	<	3.80	ND		UJ-	<	2.66	ND	<	3.36E-04	
625-98-9	1-Chloro-3-fluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
352-33-0	1-Chloro-4-fluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1996-41-4	2-Chloro-4-fluorophenol	<	10.00	ND		U	<	10.00	ND		UJ-	<	10.00	ND		UJ-	<	7.60	ND	<	9.59E-04	
2613-23-2	3-Chloro-4-fluorophenol	<	10.00	ND		U	<	10.00	ND		UJ-	<	10.00	ND		UJ-	<	7.60	ND	<	9.59E-04	
59-50-7	4-Chloro-3-methylphenol	<	1.40	ND		U	<	2.10	ND		UJ-	<	1.80	ND		UJ-	<	1.34	ND	<	1.69E-04	
91-58-7	2-Chloronaphthalene	<	2.00	ND		U	<	3.20	ND		U	<	3.80	ND		U	<	2.28	ND	<	2.88E-04	
95-57-8	2-Chlorophenol	<	2.80	ND		UJ-	<	1.80	ND		UJ-	<	2.20	ND		UJ-	<	1.72	ND	<	2.17E-04	
7005-72-3	4-Chlorophenyl phenyl ether	<	1.60	ND		U	<	1.60	ND		U	<	1.90	ND		U	<	1.29	ND	<	1.63E-04	
218-01-9	Chrysene	<	1.70	ND		U	<	1.50	ND		U	<	1.70	ND		U	<	1.24	ND	<	1.57E-04	
434-90-2	Decafluorobiphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
53-70-3	Dibenz[a,h]anthracene	<	2.40	ND		U	<	2.40	ND		U	<	2.60	ND		U	<	1.88	ND	<	2.37E-04	
132-64-9	Dibenzofuran	<	1.80	ND		U	<	1.80	ND		U	<	2.00	ND		U	<	1.42	ND	<	1.79E-04	
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1435-51-4	1,3-Dibromo-5-fluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
5576-19-2	2,2'-Dibromooctafluorobiphenyl	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
827-08-7	1,2-Dibromotetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
1559-87-1	1,3-Dibromotetrafluorobenzene	<	10.00	ND		U	<	10.00	ND		U	<	10.00	ND		U	<	7.60	ND	<	9.59E-04	
95-50-1	1,2-Dichlorobenzene	<	3.00	ND		U	<	1.80	ND		U	<	2.90	ND		U	<	1.95	ND	<	2.46E-04	
541-73-1	1,3-Dichlorobenzene	<	3.00	ND		U	<	3.70	ND		U	<	3.20	ND		U	<	2.51	ND	<	3.16E-04	
106-46-7	1,4-Dichlorobenzene	<	3.00	ND		U	<	1.80	ND		U	<	3.00	ND		U	<	1.98	ND	<	2.49E-04	
120-83-2	2,4-Dichlorophenol	<	2.70	ND		U	<	1.70	ND		UJ-	<	2.00	ND		UJ-	<	1.62	ND	<	2.05E-04	

Table A-3-3. Run 2A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2040,2041 R2A M0010 FILTER,FH SOLVENT RINSE					S-2042,2043 R2A M0010 XAD RESIN,BH SOLVENT RINSE					S-2044,2045 R2A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag			
117-81-7	Di (2-ethylhexyl)phthalate	< 17.00	ND	17.00		U	< 22.00	ND	22.00		U	< 19.00	ND	19.00		U	< 14.70	ND	< 1.85E-03
84-66-2	Diethyl phthalate	< 1.70	ND	1.70		U	< 3.20	ND	3.20		U	< 1.90	ND	1.90		U	< 1.72	ND	< 2.17E-04
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
105-67-9	2,4-Dimethylphenol	< 2.80	ND	2.80		UJ-	< 3.10	ND	3.10		UJ-	< 1.50	ND	1.50	*-	UJ-	< 1.88	ND	< 2.37E-04
131-11-3	Dimethyl phthalate	< 1.80	ND	1.80		U	< 1.60	ND	1.60		U	< 2.40	ND	2.40		U	< 1.47	ND	< 1.85E-04
84-74-2	Di-n-butyl phthalate	< 3.20	ND	3.20		U	< 3.60	ND	3.60		U	< 3.40	ND	3.40		U	< 2.59	ND	< 3.26E-04
534-52-1	4,6-Dinitro-2-methylphenol	< 4.20	ND	4.20		U	< 5.60	ND	5.60		UJ-	< 4.20	ND	4.20		UJ-	< 3.55	ND	< 4.47E-04
51-28-5	2,4-Dinitrophenol	< 9.80	ND	9.80		U	< 12.00	ND	12.00		UJ-	< 8.00	ND	8.00		UJ-	< 7.55	ND	< 9.52E-04
121-14-2	2,4-Dinitrotoluene	< 2.20	ND	2.20		U	< 2.90	ND	2.90		U	< 2.40	ND	2.40		U	< 1.90	ND	< 2.40E-04
606-20-2	2,6-Dinitrotoluene	< 1.90	ND	1.90		U	< 2.40	ND	2.40		U	< 2.20	ND	2.20		U	< 1.65	ND	< 2.08E-04
117-84-0	Di-n-octyl phthalate	< 2.30	ND	2.30		U	< 4.60	ND	4.60		U	< 4.60	ND	4.60		U	< 2.91	ND	< 3.68E-04
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.40	ND	2.40		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U	< 1.67	ND	< 2.11E-04
206-44-0	Fluoranthene	< 2.30	ND	2.30		U	< 2.80	ND	2.80		U	< 2.50	ND	2.50		U	< 1.93	ND	< 2.43E-04
86-73-7	Fluorene	< 1.90	ND	1.90		U	< 2.10	ND	2.10		U	< 2.20	ND	2.20		U	< 1.57	ND	< 1.98E-04
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		UJ-	< 10.00	ND	10.00		UJ-	< 7.60	ND	< 9.59E-04
118-74-1	Hexachlorobenzene	< 1.80	ND	1.80		U	< 2.10	ND	2.10		U	< 2.30	ND	2.30		U	< 1.57	ND	< 1.98E-04
87-68-3	Hexachlorobutadiene	< 3.30	ND	3.30		U	< 2.10	ND	2.10		U	< 4.70	ND	4.70		U	< 2.56	ND	< 3.23E-04
77-47-4	Hexachlorocyclopentadiene	< 3.00	ND	3.00		U	< 2.30	ND	2.30		U	< 3.80	ND	3.80		U	< 2.31	ND	< 2.91E-04
67-72-1	Hexachloroethane	< 3.10	ND	3.10		U	< 1.70	ND	1.70		U	< 3.90	ND	3.90		U	< 2.20	ND	< 2.78E-04
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U	< 3.40	ND	3.40		U	< 2.13	ND	< 2.68E-04
78-59-1	Isophorone	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U	< 1.20	ND	1.20		U	< 1.37	ND	< 1.73E-04
91-57-6	2-Methylnaphthalene	< 3.20	ND	3.20		U	< 1.70	ND	1.70		U	< 1.90	ND	1.90		U	< 1.72	ND	< 2.17E-04
95-48-7	2-Methylphenol	< 2.30	ND	2.30		U	< 1.90	ND	1.90		UJ-	< 2.40	ND	2.40		UJ-	< 1.67	ND	< 2.11E-04
15831-10-4	3 & 4 Methylphenol	< 2.30	ND	2.30		U	< 2.70	ND	2.70		UJ-	< 2.60	ND	2.60		UJ-	< 1.93	ND	< 2.43E-04
91-20-3	Naphthalene	< 1.60	ND	1.60		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U	< 1.47	ND	< 1.85E-04
88-74-4	2-Nitroaniline	< 2.40	ND	2.40		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U	< 2.03	ND	< 2.56E-04
99-09-2	3-Nitroaniline	< 2.20	ND	2.20		U	< 5.20	ND	5.20		U	< 2.60	ND	2.60		U	< 2.53	ND	< 3.20E-04
100-01-6	4-Nitroaniline	< 2.60	ND	2.60		U	< 4.10	ND	4.10		U	< 3.30	ND	3.30		U	< 2.53	ND	< 3.20E-04
98-95-3	Nitrobenzene	< 3.10	ND	3.10		U	< 1.90	ND	1.90		U	< 2.00	ND	2.00		U	< 1.77	ND	< 2.24E-04
88-75-5	2-Nitrophenol	< 1.80	ND	1.80		UJ-	< 2.90	ND	2.90		UJ-	< 3.20	ND	3.20	*-	UJ-	< 2.00	ND	< 2.52E-04
100-02-7	4-Nitrophenol	< 4.60	ND	4.60		U	< 4.90	ND	4.90		UJ-	< 5.50	ND	5.50		UJ-	< 3.80	ND	< 4.79E-04
62-75-9	N-Nitrosodimethylamine	< 2.00	ND	2.00		U	5.80		1.90	J	0.00	24.80		2.30		0.00	8.26		1.04E-03
621-64-7	N-Nitrosodi-n-propylamine	< 3.80	ND	3.80		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U	< 2.18	ND	< 2.75E-04
86-30-6	N-Nitrosodiphenylamine	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.00	ND	2.00		U	< 1.57	ND	< 1.98E-04
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 1.30	ND	1.30		U	< 1.47	ND	< 1.85E-04
87-86-5	Pentachlorophenol	< 12.00	ND	12.00		U	< 9.30	ND	9.30		UJ-	< 4.70	ND	4.70		UJ-	< 6.59	ND	< 8.31E-04
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 7.60	ND	< 9.59E-04
85-01-8	Phenanthrene	< 1.80	ND	1.80		U	< 2.30	ND	2.30		U	< 2.10	ND	2.10		U	< 1.57	ND	< 1.98E-04
108-95-2	Phenol	< 1.30	ND	1.30		U	< 2.20	ND	2.20		UJ-	8.55		2.40	J	J-	3.05		3.85E-04
129-00-0	Pyrene	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U	< 1.70	ND	< 2.14E-04
110-86-1	Pyridine	< 4.10	ND	4.10		UJ-	< 4.90	ND	4.90		UJ-	11.10		5.40	J *	J-	5.09		6.42E-04
120-82-1	1,2,4-Trichlorobenzene	< 2.90	ND	2.90		U	< 1.80	ND	1.80		U	< 2.60	ND	2.60		U	< 1.85	ND	< 2.33E-04

Table A-3-3. Run 2A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2040,2041 R2A M0010 FILTER,FH SOLVENT RINSE					S-2042,2043 R2A M0010 XAD RESIN,BH SOLVENT RINSE					S-2044,2045 R2A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag			
95-95-4	2,4,5-Trichlorophenol	< 1.50	ND	1.50		U	< 1.60	ND	1.60		UJ-	< 2.00	ND	2.00		UJ-	< 1.29	ND	< 1.63E-04
88-06-2	2,4,6-Trichlorophenol	< 2.20	ND	2.20		U	< 2.80	ND	2.80		UJ-	< 2.90	ND	2.90		UJ-	< 2.00	ND	< 2.52E-04
	Subtotal - Non-detect	574.60					594.90					565.70					434.85		5.55E-02
	Subtotal - Detected	0.00					5.80					47.42					18.67		1.70E-03
	Grand Total	574.60					600.70					613.12					453.52		5.72E-02

Red text and pink background indicates a detected value.

Conversion Factors

60 min/hr
35.31 ft³/m³
1,000,000 µg/g
453.59 g/lb

Stack Gas Flow Rate (dscfm) 33.667
Standard Meter Volume (dscf) 139.34
Standard Meter Volume (dscm) 3.95

Table A-3-4. Run 3A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2046,2047 R3A M0010 FILTER,FH SOLVENT RINSE					S-2048,2049 R3A M0010 XAD RESIN,BH SOLVENT RINSE					S-2050,2051 R3A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)						
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag									
83-32-9	Acenaphthene	<	1.50	ND		1.50	U	<	1.50	ND		1.50	U	<	1.70	ND		1.70	U	<	1.08	ND	<	1.19E-04	
208-96-8	Acenaphthylene	<	2.10	ND		2.10	U	<	2.30	ND		2.30	U	<	2.60	ND		2.60	U	<	1.61	ND	<	1.77E-04	
98-86-2	Acetophenone	<	3.40	ND		3.40	U	<	2.60	ND		2.60	U	<	1.20	ND		1.20	U	<	1.65	ND	<	1.82E-04	
62-53-3	Aniline	<	1.80	ND		1.80	UJ-	<	4.40	ND		4.40	UJ-	<	2.50	ND		2.50	*-	UJ-	<	2.00	ND	<	2.20E-04
120-12-7	Anthracene	<	2.50	ND		2.50	U	<	2.60	ND		2.60	U	<	2.60	ND		2.60	U	<	1.77	ND	<	1.95E-04	
56-55-3	Benzo[a]anthracene	<	1.70	ND		1.70	U	<	2.00	ND		2.00	U	<	1.70	ND		1.70	U	<	1.24	ND	<	1.36E-04	
50-32-8	Benzo[a]pyrene	<	2.20	ND		2.20	U	<	2.60	ND		2.60	U	<	2.60	ND		2.60	U	<	1.70	ND	<	1.87E-04	
205-99-2	Benzo[b]fluoranthene	<	2.00	ND		2.00	U	<	1.90	ND		1.90	U	<	2.10	ND		2.10	U	<	1.38	ND	<	1.52E-04	
191-24-2	Benzo[g,h,i]perylene	<	2.00	ND		2.00	U	<	2.20	ND		2.20	U	<	2.30	ND		2.30	U	<	1.49	ND	<	1.64E-04	
207-08-9	Benzo[k]fluoranthene	<	1.70	ND		1.70	U	<	1.50	ND		1.50	U	<	1.90	ND		1.90	U	<	1.17	ND	<	1.29E-04	
100-51-6	Benzyl alcohol	<	4.60	ND		4.60	U	<	4.20	ND		4.20	U	<	2.40	ND		2.40	U	<	2.57	ND	<	2.83E-04	
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
111-91-1	Bis(2-chloroethoxy)methane	<	1.40	ND		1.40	U	<	1.80	ND		1.80	U	<	1.80	ND		1.80	U	<	1.15	ND	<	1.26E-04	
111-44-4	Bis(2-chloroethyl)ether	<	3.20	ND		3.20	U	<	3.90	ND		3.90	U	<	2.40	ND		2.40	U	<	2.18	ND	<	2.40E-04	
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
461-96-1	1-Bromo-3,5-difluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
1072-85-1	1-Bromo-2-fluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
460-00-4	4-Bromofluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
341-41-3	1-Bromo-4-fluoronaphthalene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
315-56-0	1-Bromo-5-fluoronaphthalene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
324-41-4	2-Bromo-6-fluoronaphthalene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
27041-17-4	2-Bromoheptafluoronaphthalene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
344-04-7	Bromopentafluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
85-68-7	Butyl benzyl phthalate	<	1.80	ND		1.80	U	<	4.20	ND		4.20	U	2.99		2.40	J	0.00	2.06		<	2.27E-04			
86-74-8	Carbazole	<	2.10	ND		2.10	U	<	3.80	ND		3.80	U	<	2.40	ND		2.40	U	<	1.91	ND	<	2.10E-04	
106-47-8	4-Chloroaniline	<	1.80	ND		1.80	UJ-	<	4.90	ND		4.90	UJ-	<	3.80	ND		3.80	*-	UJ-	<	2.41	ND	<	2.65E-04
625-98-9	1-Chloro-3-fluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
352-33-0	1-Chloro-4-fluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
1996-41-4	2-Chloro-4-fluorophenol	<	10.00	ND		10.00	U	<	10.00	ND		10.00	UJ-	<	10.00	ND		10.00	UJ-	<	6.89	ND	<	7.58E-04	
2613-23-2	3-Chloro-4-fluorophenol	<	10.00	ND		10.00	U	<	10.00	ND		10.00	UJ-	<	10.00	ND		10.00	UJ-	<	6.89	ND	<	7.58E-04	
59-50-7	4-Chloro-3-methylphenol	<	1.40	ND		1.40	U	<	2.10	ND		2.10	UJ-	<	1.80	ND		1.80	UJ-	<	1.22	ND	<	1.34E-04	
91-58-7	2-Chloronaphthalene	<	2.00	ND		2.00	U	<	3.20	ND		3.20	U	<	3.80	ND		3.80	U	<	2.07	ND	<	2.27E-04	
95-57-8	2-Chlorophenol	<	2.80	ND		2.80	UJ-	<	1.80	ND		1.80	UJ-	<	2.20	ND		2.20	*-	UJ-	<	1.56	ND	<	1.72E-04
7005-72-3	4-Chlorophenyl phenyl ether	<	1.60	ND		1.60	U	<	1.60	ND		1.60	U	<	1.90	ND		1.90	U	<	1.17	ND	<	1.29E-04	
218-01-9	Chrysene	<	1.70	ND		1.70	U	<	1.50	ND		1.50	U	<	1.70	ND		1.70	U	<	1.13	ND	<	1.24E-04	
434-90-2	Decafluorobiphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
53-70-3	Dibenz(a,h)anthracene	<	2.40	ND		2.40	U	<	2.40	ND		2.40	U	<	2.60	ND		2.60	U	<	1.70	ND	<	1.87E-04	
132-64-9	Dibenzofuran	<	1.80	ND		1.80	U	<	1.80	ND		1.80	U	<	2.00	ND		2.00	U	<	1.29	ND	<	1.42E-04	
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
1435-51-4	1,3-Dibromo-5-fluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
5576-19-2	2,2'-Dibromooctafluorobiphenyl	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58E-04	
827-08-7	1,2-Dibromotetrafluorobenzene	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	10.00	ND		10.00	U	<	6.89	ND	<	7.58	

Table A-3-4. Run 3A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2046,2047 R3A M0010 FILTER,FH SOLVENT RINSE					S-2048,2049 R3A M0010 XAD RESIN,BH SOLVENT RINSE					S-2050,2051 R3A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag			
117-81-7	Di (2-ethylhexyl)phthalate	< 17.00	ND	17.00		U	< 22.00	ND	22.00		U	< 19.00	ND	19.00		U	< 13.32	ND	< 1.47E-03
84-66-2	Diethyl phthalate	< 1.70	ND	1.70		U	3.59		3.20	J	J	< 1.90	ND	1.90		U	1.65		1.82E-04
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
105-67-9	2,4-Dimethylphenol	< 2.80	ND	2.80		UJ-	< 3.10	ND	3.10		UJ-	< 1.50	ND	1.50	*	UJ-	< 1.70	ND	< 1.87E-04
131-11-3	Dimethyl phthalate	< 1.80	ND	1.80		U	< 1.60	ND	1.60		U	< 2.40	ND	2.40		U	< 1.33	ND	< 1.47E-04
84-74-2	Di-n-butyl phthalate	< 3.20	ND	3.20		U	7.24		3.60	J	J	< 3.40	ND	3.40		U	3.18		3.50E-04
534-52-1	4,6-Dinitro-2-methylphenol	< 4.20	ND	4.20		U	< 5.60	ND	5.60		UJ-	< 4.20	ND	4.20		UJ-	< 3.22	ND	< 3.54E-04
51-28-5	2,4-Dinitrophenol	< 9.80	ND	9.80		U	< 12.00	ND	12.00		UJ-	< 8.00	ND	8.00		UJ-	< 6.84	ND	< 7.53E-04
121-14-2	2,4-Dinitrotoluene	< 2.20	ND	2.20		U	< 2.90	ND	2.90		U	< 2.40	ND	2.40		U	< 1.72	ND	< 1.90E-04
606-20-2	2,6-Dinitrotoluene	< 1.90	ND	1.90		U	2.60		2.40	J	J	< 2.20	ND	2.20		U	1.54		1.69E-04
117-84-0	Di-n-octyl phthalate	< 2.30	ND	2.30		U	< 4.60	ND	4.60		U	< 4.60	ND	4.60		U	< 2.64	ND	< 2.91E-04
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.40	ND	2.40		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U	< 1.52	ND	< 1.67E-04
206-44-0	Fluoranthene	< 2.30	ND	2.30		U	< 2.80	ND	2.80		U	< 2.50	ND	2.50		U	< 1.75	ND	< 1.92E-04
86-73-7	Fluorene	< 1.90	ND	1.90		U	< 2.10	ND	2.10		U	< 2.20	ND	2.20		U	< 1.42	ND	< 1.57E-04
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		UJ-	< 10.00	ND	10.00		UJ-	< 6.89	ND	< 7.58E-04
118-74-1	Hexachlorobenzene	< 1.80	ND	1.80		U	< 2.10	ND	2.10		U	< 2.30	ND	2.30		U	< 1.42	ND	< 1.57E-04
87-68-3	Hexachlorobutadiene	< 3.30	ND	3.30		U	< 2.10	ND	2.10		U	< 4.70	ND	4.70		U	< 2.32	ND	< 2.55E-04
77-47-4	Hexachlorocyclopentadiene	< 3.00	ND	3.00		U	< 2.30	ND	2.30		U	< 3.80	ND	3.80		U	< 2.09	ND	< 2.30E-04
67-72-1	Hexachloroethane	< 3.10	ND	3.10		U	< 1.70	ND	1.70		U	< 3.90	ND	3.90		U	< 2.00	ND	< 2.20E-04
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U	< 3.40	ND	3.40		U	< 1.93	ND	< 2.12E-04
78-59-1	Isophorone	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U	< 1.20	ND	1.20		U	< 1.24	ND	< 1.36E-04
91-57-6	2-Methylnaphthalene	< 3.20	ND	3.20		U	< 1.70	ND	1.70		U	< 1.90	ND	1.90		U	< 1.56	ND	< 1.72E-04
95-48-7	2-Methylphenol	< 2.30	ND	2.30		U	< 1.90	ND	1.90		UJ-	< 2.40	ND	2.40		UJ-	< 1.52	ND	< 1.67E-04
15831-10-4	3 & 4 Methylphenol	< 2.30	ND	2.30		U	< 2.70	ND	2.70		UJ-	< 2.60	ND	2.60		UJ-	< 1.75	ND	< 1.92E-04
91-20-3	Naphthalene	< 1.60	ND	1.60		U	2.11		2.10	J	J	< 2.10	ND	2.10		U	1.33		1.47E-04
88-74-4	2-Nitroaniline	< 2.40	ND	2.40		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U	< 1.84	ND	< 2.02E-04
99-09-2	3-Nitroaniline	< 2.20	ND	2.20		U	< 5.20	ND	5.20		U	< 2.60	ND	2.60		U	< 2.30	ND	< 2.53E-04
100-01-6	4-Nitroaniline	< 2.60	ND	2.60		U	< 4.10	ND	4.10		U	< 3.30	ND	3.30		U	< 2.30	ND	< 2.53E-04
98-95-3	Nitrobenzene	< 3.10	ND	3.10		U	< 1.90	ND	1.90		U	< 2.00	ND	2.00		U	< 1.61	ND	< 1.77E-04
88-75-5	2-Nitrophenol	< 1.80	ND	1.80		UJ-	< 2.90	ND	2.90		UJ-	< 3.20	ND	3.20	*	UJ-	< 1.81	ND	< 2.00E-04
100-02-7	4-Nitrophenol	< 4.60	ND	4.60		U	< 4.90	ND	4.90		UJ-	< 5.50	ND	5.50		UJ-	< 3.44	ND	< 3.79E-04
62-75-9	N-Nitrosodimethylamine	< 2.00	ND	2.00		U	3.53		1.90	J	J	64.90		2.30	0.00	< 16.17		< 1.78E-03	
621-64-7	N-Nitrosodi-n-propylamine	< 3.80	ND	3.80		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U	< 1.98	ND	< 2.17E-04
86-30-6	N-Nitrosodiphenylamine	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.00	ND	2.00		U	< 1.42	ND	< 1.57E-04
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 1.30	ND	1.30		U	< 1.33	ND	< 1.47E-04
87-86-5	Pentachlorophenol	< 12.00	ND	12.00		U	< 9.30	ND	9.30		UJ-	< 4.70	ND	4.70		UJ-	< 5.97	ND	< 6.57E-04
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 6.89	ND	< 7.58E-04
85-01-8	Phenanthrene	< 1.80	ND	1.80		U	< 2.30	ND	2.30		U	< 2.10	ND	2.10		U	< 1.42	ND	< 1.57E-04
108-95-2	Phenol	< 1.30	ND	1.30		U	2.79		2.20	J	UJ-	< 2.40	ND	2.40		UJ-	< 1.49		1.64E-04
129-00-0	Pyrene	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U	< 1.54	ND	< 1.69E-04
110-86-1	Pyridine	< 4.10	ND	4.10		UJ-	5.85		4.90	J	J-	11.70		5.40	J *	J-	4.97		5.47E-04
120-82-1	1,2,4-Trichlorobenzene	< 2.90	ND	2.90		U	< 1.80	ND	1.80		U	< 2.60	ND	2.60		U	< 1.68	ND	< 1.85E-04

Table A-3-4. Run 3A - Method 0010 Emissions Calculations

CAS No.	Analyte	S-2046,2047 R3A M0010 FILTER,FH SOLVENT RINSE					S-2048,2049 R3A M0010 XAD RESIN,BH SOLVENT RINSE					S-2050,2051 R3A M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE					Concentration (µg/dscm)	ND	Emission Rate (lb/hr)
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag			
95-95-4	2,4,5-Trichlorophenol	< 1.50	ND	1.50		U	< 1.60	ND	1.60		UJ-	< 2.00	ND	2.00		UJ-	< 1.17	ND	< 1.29E-04
88-06-2	2,4,6-Trichlorophenol	< 2.20	ND	2.20		U	< 2.80	ND	2.80		UJ-	< 2.90	ND	2.90		UJ-	< 1.81	ND	< 2.00E-04
	Subtotal - Non-detect	574.60					576.50					568.10					387.48		4.35E-02
	Subtotal - Detected	0.00					27.71					79.59					32.39		2.71E-03
	Grand Total	574.60					604.21					647.69					419.87		4.62E-02

Red text and pink background indicates a detected value.

Conversion Factors

60 min/hr
35.31 ft³/m³
1,000,000 µg/g
453.59 g/lb

Stack Gas Flow Rate (dscfm) 29.384
Standard Meter Volume (dscf) 153.77
Standard Meter Volume (dscm) 4.35

Table A-3-5. Method 0010 Blank Train Analytical Results

CAS No.	Analyte	S-2052,2053 QA M0010 FILTER,FH SOLVENT RINSE PB					S-2054,2055 QA M0010 XAD RESIN,BH SOLVENT RINSE PB					S-2056,2057 QA M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
83-32-9	Acenaphthene	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U	< 1.70	ND	1.70		U
208-96-8	Acenaphthylene	< 2.10	ND	2.10		U	< 2.30	ND	2.30		U	< 2.60	ND	2.60		U
98-86-2	Acetophenone	< 3.40	ND	3.40		U	10.80		2.60		0.00	< 1.20	ND	1.20		U
62-53-3	Aniline	< 1.80	ND	1.80		UJ-	< 4.40	ND	4.40		UJ-	< 2.50	ND	2.50	*-	UJ-
120-12-7	Anthracene	< 2.50	ND	2.50		U	< 2.60	ND	2.60		U	< 2.60	ND	2.60		U
56-55-3	Benzo[a]anthracene	< 1.70	ND	1.70		U	< 2.00	ND	2.00		U	< 1.70	ND	1.70		U
50-32-8	Benzo[a]pyrene	< 2.20	ND	2.20		U	< 2.60	ND	2.60		U	< 2.60	ND	2.60		U
205-99-2	Benzo[b]fluoranthene	< 2.00	ND	2.00		U	< 1.90	ND	1.90		U	< 2.10	ND	2.10		U
191-24-2	Benzo[g,h,i]perylene	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.30	ND	2.30		U
207-08-9	Benzo[k]fluoranthene	< 1.70	ND	1.70		U	< 1.50	ND	1.50		U	< 1.90	ND	1.90		U
100-51-6	Benzyl alcohol	< 4.60	ND	4.60		U	< 4.20	ND	4.20		U	< 2.40	ND	2.40		U
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
111-91-1	Bis(2-chloroethoxy)methane	< 1.40	ND	1.40		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
111-44-4	Bis(2-chloroethyl)ether	< 3.20	ND	3.20		U	< 3.90	ND	3.90		U	< 2.40	ND	2.40		U
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
461-96-1	1-Bromo-3,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1072-85-1	1-Bromo-2-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
460-00-4	4-Bromofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
341-41-3	1-Bromo-4-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
315-56-0	1-Bromo-5-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
324-41-4	2-Bromo-6-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
27041-17-4	2-Bromoheptafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
344-04-7	Bromopentafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-68-7	Butyl benzyl phthalate	< 1.80	ND	1.80		U	< 4.20	ND	4.20		U	< 2.40	ND	2.40		U
86-74-8	Carbazole	< 2.10	ND	2.10		U	< 3.80	ND	3.80		U	< 2.40	ND	2.40		U
106-47-8	4-Chloroaniline	< 1.80	ND	1.80		UJ-	< 4.90	ND	4.90		UJ-	< 3.80	ND	3.80	*-	UJ-
625-98-9	1-Chloro-3-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
352-33-0	1-Chloro-4-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1996-41-4	2-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		UJ-	< 10.00	ND	10.00		UJ-
2613-23-2	3-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		UJ-	< 10.00	ND	10.00		UJ-
59-50-7	4-Chloro-3-methylphenol	< 1.40	ND	1.40		U	< 2.10	ND	2.10		UJ-	< 1.80	ND	1.80		UJ-
91-58-7	2-Chloronaphthalene	< 2.00	ND	2.00		U	< 3.20	ND	3.20		U	< 3.80	ND	3.80		U
95-57-8	2-Chlorophenol	< 2.80	ND	2.80		UJ-	< 1.80	ND	1.80		UJ-	< 2.20	ND	2.20	*-	UJ-
7005-72-3	4-Chlorophenyl phenyl ether	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U	< 1.90	ND	1.90		U
218-01-9	Chrysene	< 1.70	ND	1.70		U	< 1.50	ND	1.50		U	< 1.70	ND	1.70		U
434-90-2	Decafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
53-70-3	Dibenz(a,h)anthracene	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U	< 2.60	ND	2.60		U

Table A-3-5. Method 0010 Blank Train Analytical Results

CAS No.	Analyte	S-2052,2053 QA M0010 FILTER,FH SOLVENT RINSE PB					S-2054,2055 QA M0010 XAD RESIN,BH SOLVENT RINSE PB					S-2056,2057 QA M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
132-64-9	Dibenzofuran	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U	< 2.00	ND	2.00		U
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1435-51-4	1,3-Dibromo-5-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
5576-19-2	2,2'-Dibromooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
827-08-7	1,2-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1559-87-1	1,3-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
95-50-1	1,2-Dichlorobenzene	< 3.00	ND	3.00		U	< 1.80	ND	1.80		U	< 2.90	ND	2.90		U
541-73-1	1,3-Dichlorobenzene	< 3.00	ND	3.00		U	< 3.70	ND	3.70		U	< 3.20	ND	3.20		U
106-46-7	1,4-Dichlorobenzene	< 3.00	ND	3.00		U	< 1.80	ND	1.80		U	< 3.00	ND	3.00		U
120-83-2	2,4-Dichlorophenol	< 2.70	ND	2.70		U	< 1.70	ND	1.70		UJ-	< 2.00	ND	2.00		UJ-
117-81-7	Di (2-ethylhexyl)phthalate	< 17.00	ND	17.00		U	< 22.00	ND	22.00		U	< 19.00	ND	19.00		U
84-66-2	Diethyl phthalate	< 1.70	ND	1.70		U	< 3.20	ND	3.20		U	< 1.90	ND	1.90		U
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
105-67-9	2,4-Dimethylphenol	< 2.80	ND	2.80		UJ-	< 3.10	ND	3.10		UJ-	< 1.50	ND	1.50	*	UJ-
131-11-3	Dimethyl phthalate	< 1.80	ND	1.80		U	< 1.60	ND	1.60		U	< 2.40	ND	2.40		U
84-74-2	Di-n-butyl phthalate	3.59		3.20	J		< 3.60	ND	3.60		U	< 3.40	ND	3.40		U
534-52-1	4,6-Dinitro-2-methylphenol	< 4.20	ND	4.20		U	< 5.60	ND	5.60		UJ-	< 4.20	ND	4.20		UJ-
51-28-5	2,4-Dinitrophenol	< 9.80	ND	9.80		U	< 12.00	ND	12.00		UJ-	< 8.00	ND	8.00		UJ-
121-14-2	2,4-Dinitrotoluene	< 2.20	ND	2.20		U	< 2.90	ND	2.90		U	< 2.40	ND	2.40		U
606-20-2	2,6-Dinitrotoluene	< 1.90	ND	1.90		U	< 2.40	ND	2.40		U	< 2.20	ND	2.20		U
117-84-0	Di-n-octyl phthalate	< 2.30	ND	2.30		U	< 4.60	ND	4.60		U	< 4.60	ND	4.60		U
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.40	ND	2.40		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
206-44-0	Fluoranthene	< 2.30	ND	2.30		U	< 2.80	ND	2.80		U	< 2.50	ND	2.50		U
86-73-7	Fluorene	< 1.90	ND	1.90		U	< 2.10	ND	2.10		U	< 2.20	ND	2.20		U
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		UJ-	< 10.00	ND	10.00		UJ-
118-74-1	Hexachlorobenzene	< 1.80	ND	1.80		U	< 2.10	ND	2.10		U	< 2.30	ND	2.30		U
87-68-3	Hexachlorobutadiene	< 3.30	ND	3.30		U	< 2.10	ND	2.10		U	< 4.70	ND	4.70		U
77-47-4	Hexachlorocyclopentadiene	< 3.00	ND	3.00		U	< 2.30	ND	2.30		U	< 3.80	ND	3.80		U
67-72-1	Hexachloroethane	< 3.10	ND	3.10		U	< 1.70	ND	1.70		U	< 3.90	ND	3.90		U
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U	< 3.40	ND	3.40		U
78-59-1	Isophorone	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U	< 1.20	ND	1.20		U
91-57-6	2-Methylnaphthalene	< 3.20	ND	3.20		U	< 1.70	ND	1.70		U	< 1.90	ND	1.90		U
95-48-7	2-Methylphenol	< 2.30	ND	2.30		U	< 1.90	ND	1.90		UJ-	< 2.40	ND	2.40		UJ-
15831-10-4	3 & 4 Methylphenol	< 2.30	ND	2.30		U	< 2.70	ND	2.70		UJ-	< 2.60	ND	2.60		UJ-

Table A-3-5. Method 0010 Blank Train Analytical Results

CAS No.	Analyte	S-2052,2053 QA M0010 FILTER,FH SOLVENT RINSE PB					S-2054,2055 QA M0010 XAD RESIN,BH SOLVENT RINSE PB					S-2056,2057 QA M0010 IMPINGER 1-4,IMPINGER 1-4 SOLVENT RINSE				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
91-20-3	Naphthalene	< 1.60	ND	1.60		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
88-74-4	2-Nitroaniline	< 2.40	ND	2.40		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U
99-09-2	3-Nitroaniline	< 2.20	ND	2.20		U	< 5.20	ND	5.20		U	< 2.60	ND	2.60		U
100-01-6	4-Nitroaniline	< 2.60	ND	2.60		U	< 4.10	ND	4.10		U	< 3.30	ND	3.30		U
98-95-3	Nitrobenzene	< 3.10	ND	3.10		U	< 1.90	ND	1.90		U	< 2.00	ND	2.00		U
88-75-5	2-Nitrophenol	< 1.80	ND	1.80		UJ-	< 2.90	ND	2.90		UJ-	< 3.20	ND	3.20	*	UJ-
100-02-7	4-Nitrophenol	< 4.60	ND	4.60		U	< 4.90	ND	4.90		UJ-	< 5.50	ND	5.50		UJ-
62-75-9	N-Nitrosodimethylamine	< 2.00	ND	2.00		U	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U
621-64-7	N-Nitrosodi-n-propylamine	< 3.80	ND	3.80		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U
86-30-6	N-Nitrosodiphenylamine	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.00	ND	2.00		U
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 1.30	ND	1.30		U
87-86-5	Pentachlorophenol	< 12.00	ND	12.00		U	< 9.30	ND	9.30		UJ-	< 4.70	ND	4.70		UJ-
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-01-8	Phenanthrene	< 1.80	ND	1.80		U	< 2.30	ND	2.30		U	< 2.10	ND	2.10		U
108-95-2	Phenol	< 1.30	ND	1.30		U	3.71		2.20	J	J-	< 2.40	ND	2.40		UJ-
129-00-0	Pyrene	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
110-86-1	Pyridine	< 4.10	ND	4.10		UJ-	< 4.90	ND	4.90		UJ-	< 5.40	ND	5.40	*	UJ-
120-82-1	1,2,4-Trichlorobenzene	< 2.90	ND	2.90		U	< 1.80	ND	1.80		U	< 2.60	ND	2.60		U
95-95-4	2,4,5-Trichlorophenol	< 1.50	ND	1.50		U	< 1.60	ND	1.60		UJ-	< 2.00	ND	2.00		UJ-
88-06-2	2,4,6-Trichlorophenol	< 2.20	ND	2.20		U	< 2.80	ND	2.80		UJ-	< 2.90	ND	2.90		UJ-
	Subtotal - Non-detect	571.40					592.00					579.90				
	Subtotal - Detected	3.59					14.51					0.00				
	Grand Total	574.99					606.51					579.90				

Red text and pink background indicates a detected value.

Table A-3-6. Method 0010 Reagent Blanks Analytical Results

CAS No.	Analyte	S-2058 QA M0010 FILTER REAGENT BLANK					S-2059 QA M0010 METHYLENE CHLORIDE REAGENT BLANK					S-2060 QA M0010 ACETONE REAGENT BLANK				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
83-32-9	Acenaphthene	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U
208-96-8	Acenaphthylene	< 2.10	ND	2.10		U	< 2.30	ND	2.30		U	< 2.30	ND	2.30		U
98-86-2	Acetophenone	< 3.40	ND	3.40		U	< 2.60	ND	2.60		U	< 2.60	ND	2.60		U
62-53-3	Aniline	< 1.80	ND	1.80		UJ-	< 4.40	ND	4.40		UJ-	< 4.40	ND	4.40		UJ-
120-12-7	Anthracene	< 2.50	ND	2.50		U	< 2.60	ND	2.60		U	< 2.60	ND	2.60		U
56-55-3	Benzo[a]anthracene	< 1.70	ND	1.70		U	< 2.00	ND	2.00		U	< 2.00	ND	2.00		U
50-32-8	Benzo[a]pyrene	< 2.20	ND	2.20		U	< 2.60	ND	2.60		U	< 2.60	ND	2.60		U
205-99-2	Benzo[b]fluoranthene	< 2.00	ND	2.00		U	< 1.90	ND	1.90		U	< 1.90	ND	1.90		U
191-24-2	Benzo[g,h,i]perylene	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
207-08-9	Benzo[k]fluoranthene	< 1.70	ND	1.70		U	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U
100-51-6	Benzyl alcohol	< 4.60	ND	4.60		U	< 4.20	ND	4.20		U	< 4.20	ND	4.20		U
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
111-91-1	Bis(2-chloroethoxy)methane	< 1.40	ND	1.40		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
111-44-4	Bis(2-chloroethyl)ether	< 3.20	ND	3.20		U	< 3.90	ND	3.90		U	< 3.90	ND	3.90		U
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
461-96-1	1-Bromo-3,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1072-85-1	1-Bromo-2-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
460-00-4	4-Bromofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
341-41-3	1-Bromo-4-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
315-56-0	1-Bromo-5-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
324-41-4	2-Bromo-6-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
27041-17-4	2-Bromoheptafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
344-04-7	Bromopentafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-68-7	Butyl benzyl phthalate	< 1.80	ND	1.80		U	< 4.20	ND	4.20		U	< 4.20	ND	4.20		U
86-74-8	Carbazole	< 2.10	ND	2.10		U	< 3.80	ND	3.80		U	< 3.80	ND	3.80		U
106-47-8	4-Chloroaniline	< 1.80	ND	1.80		UJ-	< 4.90	ND	4.90		UJ-	< 4.90	ND	4.90		UJ-
625-98-9	1-Chloro-3-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
352-33-0	1-Chloro-4-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1996-41-4	2-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2613-23-2	3-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
59-50-7	4-Chloro-3-methylphenol	< 1.40	ND	1.40		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
91-58-7	2-Chloronaphthalene	< 2.00	ND	2.00		U	< 3.20	ND	3.20		U	< 3.20	ND	3.20		U
95-57-8	2-Chlorophenol	< 2.80	ND	2.80		UJ-	< 1.80	ND	1.80		UJ-	< 1.80	ND	1.80		UJ-
7005-72-3	4-Chlorophenyl phenyl ether	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U
218-01-9	Chrysene	< 1.70	ND	1.70		U	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U
434-90-2	Decafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
53-70-3	Dibenz(a,h)anthracene	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U

Table A-3-6. Method 0010 Reagent Blanks Analytical Results

CAS No.	Analyte	S-2058 QA M0010 FILTER REAGENT BLANK					S-2059 QA M0010 METHYLENE CHLORIDE REAGENT BLANK					S-2060 QA M0010 ACETONE REAGENT BLANK				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
132-64-9	Dibenzofuran	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1435-51-4	1,3-Dibromo-5-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
5576-19-2	2,2'-Dibromooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
827-08-7	1,2-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1559-87-1	1,3-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
95-50-1	1,2-Dichlorobenzene	< 3.00	ND	3.00		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
541-73-1	1,3-Dichlorobenzene	< 3.00	ND	3.00		U	< 3.70	ND	3.70		U	< 3.70	ND	3.70		U
106-46-7	1,4-Dichlorobenzene	< 3.00	ND	3.00		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
120-83-2	2,4-Dichlorophenol	< 2.70	ND	2.70		U	< 1.70	ND	1.70		U	< 1.70	ND	1.70		U
117-81-7	Di (2-ethylhexyl)phthalate	< 17.00	ND	17.00		U	< 22.00	ND	22.00		U	< 22.00	ND	22.00		U
84-66-2	Diethyl phthalate	< 1.70	ND	1.70		U	< 3.20	ND	3.20		U	< 3.20	ND	3.20		U
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
105-67-9	2,4-Dimethylphenol	< 2.80	ND	2.80		UJ-	< 3.10	ND	3.10		UJ-	< 3.10	ND	3.10		UJ-
131-11-3	Dimethyl phthalate	< 1.80	ND	1.80		U	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U
84-74-2	Di-n-butyl phthalate	< 3.20	ND	3.20		U	< 3.60	ND	3.60		U	< 3.60	ND	3.60		U
534-52-1	4,6-Dinitro-2-methylphenol	< 4.20	ND	4.20		U	< 5.60	ND	5.60		U	< 5.60	ND	5.60		U
51-28-5	2,4-Dinitrophenol	< 9.80	ND	9.80		U	< 12.00	ND	12.00		U	< 12.00	ND	12.00		U
121-14-2	2,4-Dinitrotoluene	< 2.20	ND	2.20		U	< 2.90	ND	2.90		U	< 2.90	ND	2.90		U
606-20-2	2,6-Dinitrotoluene	< 1.90	ND	1.90		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U
117-84-0	Di-n-octyl phthalate	< 2.30	ND	2.30		U	< 4.60	ND	4.60		U	< 4.60	ND	4.60		U
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.40	ND	2.40		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
206-44-0	Fluoranthene	< 2.30	ND	2.30		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U
86-73-7	Fluorene	< 1.90	ND	1.90		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
118-74-1	Hexachlorobenzene	< 1.80	ND	1.80		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
87-68-3	Hexachlorobutadiene	< 3.30	ND	3.30		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
77-47-4	Hexachlorocyclopentadiene	< 3.00	ND	3.00		U	< 2.30	ND	2.30		U	< 2.30	ND	2.30		U
67-72-1	Hexachloroethane	< 3.10	ND	3.10		U	< 1.70	ND	1.70		U	< 1.70	ND	1.70		U
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U
78-59-1	Isophorone	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U	< 2.30	ND	2.30		U
91-57-6	2-Methylnaphthalene	< 3.20	ND	3.20		U	< 1.70	ND	1.70		U	< 1.70	ND	1.70		U
95-48-7	2-Methylphenol	< 2.30	ND	2.30		U	< 1.90	ND	1.90		U	< 1.90	ND	1.90		U
15831-10-4	3 & 4 Methylphenol	< 2.30	ND	2.30		U	< 2.70	ND	2.70		U	< 2.70	ND	2.70		U

Table A-3-6. Method 0010 Reagent Blanks Analytical Results

CAS No.	Analyte	S-2058 QA M0010 FILTER REAGENT BLANK					S-2059 QA M0010 METHYLENE CHLORIDE REAGENT BLANK					S-2060 QA M0010 ACETONE REAGENT BLANK				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
91-20-3	Naphthalene	< 1.60	ND	1.60		U	< 2.10	ND	2.10		U	< 2.10	ND	2.10		U
88-74-4	2-Nitroaniline	< 2.40	ND	2.40		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U
99-09-2	3-Nitroaniline	< 2.20	ND	2.20		U	< 5.20	ND	5.20		U	< 5.20	ND	5.20		U
100-01-6	4-Nitroaniline	< 2.60	ND	2.60		U	< 4.10	ND	4.10		U	< 4.10	ND	4.10		U
98-95-3	Nitrobenzene	< 3.10	ND	3.10		U	< 1.90	ND	1.90		U	< 1.90	ND	1.90		U
88-75-5	2-Nitrophenol	< 1.80	ND	1.80		UJ-	< 2.90	ND	2.90		UJ-	< 2.90	ND	2.90		UJ-
100-02-7	4-Nitrophenol	< 4.60	ND	4.60		U	< 4.90	ND	4.90		U	< 4.90	ND	4.90		U
62-75-9	N-Nitrosodimethylamine	< 2.00	ND	2.00		U	< 1.90	ND	1.90		U	< 1.90	ND	1.90		U
621-64-7	N-Nitrosodi-n-propylamine	< 3.80	ND	3.80		U	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U
86-30-6	N-Nitrosodiphenylamine	< 2.00	ND	2.00		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
87-86-5	Pentachlorophenol	< 12.00	ND	12.00		U	< 9.30	ND	9.30		U	< 9.30	ND	9.30		U
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-01-8	Phenanthrene	< 1.80	ND	1.80		U	< 2.30	ND	2.30		U	< 2.30	ND	2.30		U
108-95-2	Phenol	< 1.30	ND	1.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
129-00-0	Pyrene	< 2.30	ND	2.30		U	< 2.20	ND	2.20		U	< 2.20	ND	2.20		U
110-86-1	Pyridine	< 4.10	ND	4.10		UJ-	< 4.90	ND	4.90		UJ-	< 4.90	ND	4.90		UJ-
120-82-1	1,2,4-Trichlorobenzene	< 2.90	ND	2.90		U	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
95-95-4	2,4,5-Trichlorophenol	< 1.50	ND	1.50		U	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U
88-06-2	2,4,6-Trichlorophenol	< 2.20	ND	2.20		U	< 2.80	ND	2.80		U	< 2.80	ND	2.80		U
	Subtotal - Non-detect	574.60					596.80					596.80				
	Subtotal - Detected	0.00					0.00					0.00				
	Grand Total	574.60					596.80					596.80				

Table A-3-7. Method 0010 Media Checks Analytical Results

CAS No.	Analyte	A-2500 M0010 MEDIA CHECK XAD					M0010 MEDIA CHECK FILTER				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
83-32-9	Acenaphthene	< 1.50	ND	1.50		U	< 1.50	ND	1.50		U
208-96-8	Acenaphthylene	< 2.30	ND	2.30		U	< 2.10	ND	2.10		U
98-86-2	Acetophenone	< 2.60	ND	2.60		U	< 3.40	ND	3.40		U
62-53-3	Aniline	< 4.40	ND	4.40		UJ-	< 1.80	ND	1.80		UJ-
120-12-7	Anthracene	< 2.60	ND	2.60		U	< 2.50	ND	2.50		U
56-55-3	Benzo[a]anthracene	< 2.00	ND	2.00		U	< 1.70	ND	1.70		U
50-32-8	Benzo[a]pyrene	< 2.60	ND	2.60		U	< 2.20	ND	2.20		U
205-99-2	Benzo[b]fluoranthene	< 1.90	ND	1.90		U	< 2.00	ND	2.00		U
191-24-2	Benzo[g,h,i]perylene	< 2.20	ND	2.20		U	< 2.00	ND	2.00		U
207-08-9	Benzo[k]fluoranthene	< 1.50	ND	1.50		U	< 1.70	ND	1.70		U
100-51-6	Benzyl alcohol	< 4.20	ND	4.20		U	< 4.60	ND	4.60		U
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
111-91-1	Bis(2-chloroethoxy)methane	< 1.80	ND	1.80		U	< 1.40	ND	1.40		U
111-44-4	Bis(2-chloroethyl)ether	< 3.90	ND	3.90		U	< 3.20	ND	3.20		U
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
461-96-1	1-Bromo-3,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1072-85-1	1-Bromo-2-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
460-00-4	4-Bromofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
341-41-3	1-Bromo-4-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
315-56-0	1-Bromo-5-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
324-41-4	2-Bromo-6-fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
27041-17-4	2-Bromoheptafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
344-04-7	Bromopentafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-68-7	Butyl benzyl phthalate	< 4.20	ND	4.20		U	< 1.80	ND	1.80		U
86-74-8	Carbazole	< 3.80	ND	3.80		U	< 2.10	ND	2.10		U
106-47-8	4-Chloroaniline	< 4.90	ND	4.90		UJ-	< 1.80	ND	1.80		UJ-
625-98-9	1-Chloro-3-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
352-33-0	1-Chloro-4-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U

Table A-3-7. Method 0010 Media Checks Analytical Results

CAS No.	Analyte	A-2500 M0010 MEDIA CHECK XAD					M0010 MEDIA CHECK FILTER				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1996-41-4	2-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
2613-23-2	3-Chloro-4-fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
59-50-7	4-Chloro-3-methylphenol	< 2.10	ND	2.10		U	< 1.40	ND	1.40		U
91-58-7	2-Chloronaphthalene	< 3.20	ND	3.20		U	< 2.00	ND	2.00		U
95-57-8	2-Chlorophenol	< 1.80	ND	1.80		UJ-	< 2.80	ND	2.80		UJ-
7005-72-3	4-Chlorophenyl phenyl ether	< 1.60	ND	1.60		U	< 1.60	ND	1.60		U
218-01-9	Chrysene	< 1.50	ND	1.50		U	< 1.70	ND	1.70		U
434-90-2	Decafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
53-70-3	Dibenz(a,h)anthracene	< 2.40	ND	2.40		U	< 2.40	ND	2.40		U
132-64-9	Dibenzofuran	< 1.80	ND	1.80		U	< 1.80	ND	1.80		U
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1435-51-4	1,3-Dibromo-5-fluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
5576-19-2	2,2'-Dibromooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
827-08-7	1,2-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
1559-87-1	1,3-Dibromotetrafluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
95-50-1	1,2-Dichlorobenzene	< 1.80	ND	1.80		U	< 3.00	ND	3.00		U
541-73-1	1,3-Dichlorobenzene	< 3.70	ND	3.70		U	< 3.00	ND	3.00		U
106-46-7	1,4-Dichlorobenzene	< 1.80	ND	1.80		U	< 3.00	ND	3.00		U
120-83-2	2,4-Dichlorophenol	< 1.70	ND	1.70		U	< 2.70	ND	2.70		U
117-81-7	Di (2-ethylhexyl)phthalate	< 22.00	ND	22.00		U	< 17.00	ND	17.00		U
84-66-2	Diethyl phthalate	< 3.20	ND	3.20		U	< 1.70	ND	1.70		U
388-82-9	2,2'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
37847-52-2	2,4-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
396-64-5	3,3'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
398-23-2	4,4'-Difluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
105-67-9	2,4-Dimethylphenol	< 3.10	ND	3.10		UJ-	< 2.80	ND	2.80		UJ-
131-11-3	Dimethyl phthalate	< 1.60	ND	1.60		U	< 1.80	ND	1.80		U
84-74-2	Di-n-butyl phthalate	< 3.60	ND	3.60		U	< 3.20	ND	3.20		U

Table A-3-7. Method 0010 Media Checks Analytical Results

CAS No.	Analyte	A-2500 M0010 MEDIA CHECK XAD					M0010 MEDIA CHECK FILTER				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
534-52-1	4,6-Dinitro-2-methylphenol	< 5.60	ND	5.60		U	< 4.20	ND	4.20		U
51-28-5	2,4-Dinitrophenol	< 12.00	ND	12.00		U	< 9.80	ND	9.80		U
121-14-2	2,4-Dinitrotoluene	< 2.90	ND	2.90		U	< 2.20	ND	2.20		U
606-20-2	2,6-Dinitrotoluene	< 2.40	ND	2.40		U	< 1.90	ND	1.90		U
117-84-0	Di-n-octyl phthalate	< 4.60	ND	4.60		U	< 2.30	ND	2.30		U
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	< 2.10	ND	2.10		U	< 2.40	ND	2.40		U
206-44-0	Fluoranthene	< 2.80	ND	2.80		U	< 2.30	ND	2.30		U
86-73-7	Fluorene	< 2.10	ND	2.10		U	< 1.90	ND	1.90		U
324-74-3	4-Fluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
343-43-1	2-Fluorofluorene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
321-38-0	1-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
323-09-1	2-Fluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
371-41-5	4-Fluorophenol	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
118-74-1	Hexachlorobenzene	< 2.10	ND	2.10		U	< 1.80	ND	1.80		U
87-68-3	Hexachlorobutadiene	< 2.10	ND	2.10		U	< 3.30	ND	3.30		U
77-47-4	Hexachlorocyclopentadiene	< 2.30	ND	2.30		U	< 3.00	ND	3.00		U
67-72-1	Hexachloroethane	< 1.70	ND	1.70		U	< 3.10	ND	3.10		U
193-39-5	Indeno[1,2,3-cd]pyrene	< 2.50	ND	2.50		U	< 2.50	ND	2.50		U
78-59-1	Isophorone	< 2.30	ND	2.30		U	< 1.90	ND	1.90		U
91-57-6	2-Methylnaphthalene	< 1.70	ND	1.70		U	< 3.20	ND	3.20		U
95-48-7	2-Methylphenol	< 1.90	ND	1.90		U	< 2.30	ND	2.30		U
15831-10-4	3 & 4 Methylphenol	< 2.70	ND	2.70		U	< 2.30	ND	2.30		U
91-20-3	Naphthalene	< 2.10	ND	2.10		U	< 1.60	ND	1.60		U
88-74-4	2-Nitroaniline	< 2.80	ND	2.80		U	< 2.40	ND	2.40		U
99-09-2	3-Nitroaniline	< 5.20	ND	5.20		U	< 2.20	ND	2.20		U
100-01-6	4-Nitroaniline	< 4.10	ND	4.10		U	< 2.60	ND	2.60		U
98-95-3	Nitrobenzene	< 1.90	ND	1.90		U	< 3.10	ND	3.10		U
88-75-5	2-Nitrophenol	< 2.90	ND	2.90		UJ-	< 1.80	ND	1.80		UJ-
100-02-7	4-Nitrophenol	< 4.90	ND	4.90		U	< 4.60	ND	4.60		U
62-75-9	N-Nitrosodimethylamine	< 1.90	ND	1.90		U	< 2.00	ND	2.00		U
621-64-7	N-Nitrosodi-n-propylamine	< 2.40	ND	2.40		U	< 3.80	ND	3.80		U

Table A-3-7. Method 0010 Media Checks Analytical Results

CAS No.	Analyte	A-2500 M0010 MEDIA CHECK XAD					M0010 MEDIA CHECK FILTER				
		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
86-30-6	N-Nitrosodiphenylamine	< 2.20	ND	2.20		U	< 2.00	ND	2.00		U
348-51-6	o-Chlorofluorobenzene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
313-72-4	Octafluoronaphthalene	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
108-60-1	2,2'-oxybis[1-chloropropane]	< 2.20	ND	2.20		U	< 2.30	ND	2.30		U
87-86-5	Pentachlorophenol	< 9.30	ND	9.30		U	< 12.00	ND	12.00		U
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U
85-01-8	Phenanthrene	< 2.30	ND	2.30		U	< 1.80	ND	1.80		U
108-95-2	Phenol	< 2.20	ND	2.20		U	< 1.30	ND	1.30		U
129-00-0	Pyrene	< 2.20	ND	2.20		U	< 2.30	ND	2.30		U
110-86-1	Pyridine	< 4.90	ND	4.90		UJ-	< 4.10	ND	4.10		UJ-
120-82-1	1,2,4-Trichlorobenzene	< 1.80	ND	1.80		U	< 2.90	ND	2.90		U
95-95-4	2,4,5-Trichlorophenol	< 1.60	ND	1.60		U	< 1.50	ND	1.50		U
88-06-2	2,4,6-Trichlorophenol	< 2.80	ND	2.80		U	< 2.20	ND	2.20		U
	Subtotal - Non-detect	596.80					574.60				
	Subtotal - Detected	0.00					0.00				
	Grand Total	596.80					574.60				

Table A-3-8. Method 0010 Method Blanks Analytical Results

CAS No.	Analyte	Lookup Key	MB 140-93560/1-B					MB 140-93561/1-B					Lookup Key	MB 140-93574/1-B				
			Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
83-32-9	Acenaphthene	MB 140-93560/1-B-83-32-9	< 1.70	ND	1.70		U	< 1.50	ND	1.50		U	MB 140-93574/1-B-83-32-9	< 1.50	ND	1.50		U
208-96-8	Acenaphthylene	MB 140-93560/1-B-208-96-8	< 2.60	ND	2.60		U	< 2.10	ND	2.10		U	MB 140-93574/1-B-208-96-8	< 2.30	ND	2.30		U
98-86-2	Acetophenone	MB 140-93560/1-B-98-86-2	< 1.20	ND	1.20		U	< 3.40	ND	3.40		U	MB 140-93574/1-B-98-86-2	< 2.60	ND	2.60		U
62-53-3	Aniline	MB 140-93560/1-B-62-53-3	< 2.50	ND	2.50		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-62-53-3	< 4.40	ND	4.40		U
120-12-7	Anthracene	MB 140-93560/1-B-120-12-7	< 2.60	ND	2.60		U	< 2.50	ND	2.50		U	MB 140-93574/1-B-120-12-7	< 2.60	ND	2.60		U
56-55-3	Benzo[a]anthracene	MB 140-93560/1-B-56-55-3	< 1.70	ND	1.70		U	< 1.70	ND	1.70		U	MB 140-93574/1-B-56-55-3	< 2.00	ND	2.00		U
50-32-8	Benzo[a]pyrene	MB 140-93560/1-B-50-32-8	< 2.60	ND	2.60		U	< 2.20	ND	2.20		U	MB 140-93574/1-B-50-32-8	< 2.60	ND	2.60		U
205-99-2	Benzo[b]fluoranthene	MB 140-93560/1-B-205-99-2	< 2.10	ND	2.10		U	< 2.00	ND	2.00		U	MB 140-93574/1-B-205-99-2	< 1.90	ND	1.90		U
191-24-2	Benzo[g,h,i]perylene	MB 140-93560/1-B-191-24-2	< 2.30	ND	2.30		U	< 2.00	ND	2.00		U	MB 140-93574/1-B-191-24-2	< 2.20	ND	2.20		U
207-08-9	Benzo[k]fluoranthene	MB 140-93560/1-B-207-08-9	< 1.90	ND	1.90		U	< 1.70	ND	1.70		U	MB 140-93574/1-B-207-08-9	< 1.50	ND	1.50		U
100-51-6	Benzyl alcohol	MB 140-93560/1-B-100-51-6	< 2.40	ND	2.40		U	< 4.60	ND	4.60		U	MB 140-93574/1-B-100-51-6	< 4.20	ND	4.20		U
398-21-0	1,1'-Biphenyl, 4-bromo-4'-fluoro-	MB 140-93560/1-B-398-21-0	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-398-21-0	< 10.00	ND	10.00		U
111-91-1	Bis(2-chloroethoxy)methane	MB 140-93560/1-B-111-91-1	< 1.80	ND	1.80		U	< 1.40	ND	1.40		U	MB 140-93574/1-B-111-91-1	< 1.80	ND	1.80		U
111-44-4	Bis(2-chloroethyl)ether	MB 140-93560/1-B-111-44-4	< 2.40	ND	2.40		U	< 3.20	ND	3.20		U	MB 140-93574/1-B-111-44-4	< 3.90	ND	3.90		U
1996-30-1	2-Bromo-4-chloro-1-fluorobenzene	MB 140-93560/1-B-1996-30-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1996-30-1	< 10.00	ND	10.00		U
2244107-72-8	2-Bromo-4-chloro-6-fluorobiphenyl	MB 140-93560/1-B-2244107-72-8	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-2244107-72-8	< 10.00	ND	10.00		U
2755717-23-6	4-Bromo-3-chloro-2-fluoro-1,1'-biphenyl	MB 140-93560/1-B-2755717-23-6	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-2755717-23-6	< 10.00	ND	10.00		U
461-96-1	1-Bromo-3,5-difluorobenzene	MB 140-93560/1-B-461-96-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-461-96-1	< 10.00	ND	10.00		U
1072-85-1	1-Bromo-2-fluorobenzene	MB 140-93560/1-B-1072-85-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1072-85-1	< 10.00	ND	10.00		U
460-00-4	4-Bromofluorobenzene	MB 140-93560/1-B-460-00-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-460-00-4	< 10.00	ND	10.00		U
341-41-3	1-Bromo-4-fluoronaphthalene	MB 140-93560/1-B-341-41-3	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-341-41-3	< 10.00	ND	10.00		U
315-56-0	1-Bromo-5-fluoronaphthalene	MB 140-93560/1-B-315-56-0	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-315-56-0	< 10.00	ND	10.00		U
324-41-4	2-Bromo-6-fluoronaphthalene	MB 140-93560/1-B-324-41-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-324-41-4	< 10.00	ND	10.00		U
27041-17-4	2-Bromoheptafluoronaphthalene	MB 140-93560/1-B-27041-17-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-27041-17-4	< 10.00	ND	10.00		U
344-04-7	Bromopentafluorobenzene	MB 140-93560/1-B-344-04-7	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-344-04-7	< 10.00	ND	10.00		U
1074-91-5	1-Bromo-2,3,4,5-tetrafluorobenzene	MB 140-93560/1-B-1074-91-5	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1074-91-5	< 10.00	ND	10.00		U
85-68-7	Butyl benzyl phthalate	MB 140-93560/1-B-85-68-7	< 2.40	ND	2.40		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-85-68-7	< 4.20	ND	4.20		U
86-74-8	Carbazole	MB 140-93560/1-B-86-74-8	< 2.40	ND	2.40		U	< 2.10	ND	2.10		U	MB 140-93574/1-B-86-74-8	< 3.80	ND	3.80		U
106-47-8	4-Chloroaniline	MB 140-93560/1-B-106-47-8	< 3.80	ND	3.80		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-106-47-8	< 4.90	ND	4.90		U
625-98-9	1-Chloro-3-fluorobenzene	MB 140-93560/1-B-625-98-9	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-625-98-9	< 10.00	ND	10.00		U
352-33-0	1-Chloro-4-fluorobenzene	MB 140-93560/1-B-352-33-0	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-352-33-0	< 10.00	ND	10.00		U
1803002-70-1	3-Chloro-4-fluoro-1,1'-biphenyl	MB 140-93560/1-B-1803002-70-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1803002-70-1	< 10.00	ND	10.00		U
39224-18-5	4-Chloro-2-fluoro-1,1'-biphenyl	MB 140-93560/1-B-39224-18-5	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-39224-18-5	< 10.00	ND	10.00		U
1996-41-4	2-Chloro-4-fluorophenol	MB 140-93560/1-B-1996-41-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1996-41-4	< 10.00	ND	10.00		U
2613-23-2	3-Chloro-4-fluorophenol	MB 140-93560/1-B-2613-23-2	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-2613-23-2	< 10.00	ND	10.00		U
59-50-7	4-Chloro-3-methylphenol	MB 140-93560/1-B-59-50-7	< 1.80	ND	1.80		U	< 1.40	ND	1.40		U	MB 140-93574/1-B-59-50-7	< 2.10	ND	2.10		U
91-58-7	2-Chloronaphthalene	MB 140-93560/1-B-91-58-7	< 3.80	ND	3.80		U	< 2.00	ND	2.00		U	MB 140-93574/1-B-91-58-7	< 3.20	ND	3.20		U
95-57-8	2-Chlorophenol	MB 140-93560/1-B-95-57-8	< 2.20	ND	2.20		U	< 2.80	ND	2.80		U	MB 140-93574/1-B-95-57-8	< 1.80	ND	1.80		U
7005-72-3	4-Chlorophenyl phenyl ether	MB 140-93560/1-B-7005-72-3	< 1.90	ND	1.90		U	< 1.60	ND	1.60		U	MB 140-93574/1-B-7005-72-3	< 1.60	ND	1.60		U
218-01-9	Chrysene	MB 140-93560/1-B-218-01-9	< 1.70	ND	1.70		U	< 1.70	ND	1.70		U	MB 140-93574/1-B-218-01-9	< 1.50	ND	1.50		U
434-90-2	Decafluorobiphenyl	MB 140-93560/1-B-434-90-2	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-434-90-2	< 10.00	ND	10.00		U
53-70-3	Dibenz(a,h)anthracene	MB 140-93560/1-B-53-70-3	< 2.60	ND	2.60		U	< 2.40	ND	2.40		U	MB 140-93574/1-B-53-70-3	< 2.40	ND	2.40		U
132-64-9	Dibenzofuran	MB 140-93560/1-B-132-64-9	< 2.00	ND	2.00		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-132-64-9	< 1.80	ND	1.80		U
64695-78-9	1,2-Dibromo-4,5-difluorobenzene	MB 140-93560/1-B-64695-78-9	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-64695-78-9	< 10.00	ND	10.00		U
1435-51-4	1,3-Dibromo-5-fluorobenzene	MB 140-93560/1-B-1435-51-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1435-51-4	< 10.00	ND	10.00		U
5576-19-2	2,2'-Dibromooctafluorobiphenyl	MB 140-93560/1-B-5576-19-2	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-5576-19-2	< 10.00	ND	10.00		U
827-08-7	1,2-Dibromotetrafluorobenzene	MB 140-93560/1-B-827-08-7	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-827-08-7	< 10.00	ND	10.00		U
1559-87-1	1,3-Dibromotetrafluorobenzene	MB 140-93560/1-B-1559-87-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-1559-87-1	< 10.00	ND	10.00		U
95-50-1	1,2-Dichlorobenzene	MB 140-93560/1-B-95-50-1	< 2.90	ND	2.90		U	< 3.00	ND	3.00		U	MB 140-93574/1-B-95-50-1	< 1.80	ND	1.80		U
541-73-1	1,3-Dichlorobenzene	MB 140-93560/1-B-541-73-1	< 3.20	ND	3.20		U	< 3.00	ND	3.00		U	MB 140-93574/1-B-541-73-1	< 3.70	ND	3.70		U
106-46-7	1,4-Dichlorobenzene	MB 140-93560/1-B-106-46-7	< 3.00	ND	3.00		U	< 3.00	ND	3.00		U	MB 140-93574/1-B-106-46-7	< 1.80	ND	1.80		U
120-83-2	2,4-Dichlorophenol	MB 140-93560/1-B-120-83-2	< 2.00	ND	2.00		U	< 2.70	ND	2.70		U	MB 140-93574/1-B-120-83-2	< 1.70	ND	1.70		U
117-81-7	Di (2-ethylhexyl)phthalate	MB 140-93560/1-B-117-81-7	< 19.00	ND	19.00		U	< 17.00	ND	17.00		U	MB 140-93574/1-B-117-81-7	< 22.00	ND	22.00		U
84-66-2	Diethyl phthalate	MB 140-93560/1-B-84-66-2	< 1.90	ND	1.90		U	< 1.70	ND	1.70		U	MB 140-93574/1-B-84-66-2	< 3.20	ND	3.20		U
388-82-9	2,2'-Difluorobiphenyl	MB 140-93560/1-B-388-82-9	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-388-82-9	< 10.00	ND	10.00		U
37847-52-2	2,4-Difluorobiphenyl	MB 140-93560/1-B-37847-52-2	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-37847-52-2	< 10.00	ND	10.00		U
396-64-5	3,3'-Difluorobiphenyl	MB 140-93560/1-B-396-64-5	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-396-64-5	< 10.00	ND	10.00		U
398-23-2	4,4'-Difluorobiphenyl	MB 140-93560/1-B-398-23-2	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-398-23-2	< 10.00	ND	10.00		U
3883-86-1	4,4'-Dihydrooctafluorobiphenyl	MB 140-93560/1-B-3883-86-1	< 10.00	ND	10.00													

Table A-3-8. Method 0010 Method Blanks Analytical Results

CAS No.	Analyte	Lookup Key	MB 140-93560/1-B					MB 140-93561/1-B					Lookup Key	MB 140-93574/1-B				
			Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag	Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag		Result (µg/sample)	ND	MDL (µg/sample)	Lab Flag	DV Flag
131-11-3	Dimethyl phthalate	MB 140-93560/1-B-131-11-3	< 2.40	ND	2.40		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-131-11-3	< 1.60	ND	1.60		U
84-74-2	Di-n-butyl phthalate	MB 140-93560/1-B-84-74-2	< 3.40	ND	3.40		U	< 3.20	ND	3.20		U	MB 140-93574/1-B-84-74-2	< 3.60	ND	3.60		U
534-52-1	4,6-Dinitro-2-methylphenol	MB 140-93560/1-B-534-52-1	< 4.20	ND	4.20		U	< 4.20	ND	4.20		U	MB 140-93574/1-B-534-52-1	< 5.60	ND	5.60		U
51-28-5	2,4-Dinitrophenol	MB 140-93560/1-B-51-28-5	< 8.00	ND	8.00		U	< 9.80	ND	9.80		U	MB 140-93574/1-B-51-28-5	< 12.00	ND	12.00		U
121-14-2	2,4-Dinitrotoluene	MB 140-93560/1-B-121-14-2	< 2.40	ND	2.40		U	< 2.20	ND	2.20		U	MB 140-93574/1-B-121-14-2	< 2.90	ND	2.90		U
606-20-2	2,6-Dinitrotoluene	MB 140-93560/1-B-606-20-2	< 2.20	ND	2.20		U	< 1.90	ND	1.90		U	MB 140-93574/1-B-606-20-2	< 2.40	ND	2.40		U
117-84-0	Di-n-octyl phthalate	MB 140-93560/1-B-117-84-0	< 4.60	ND	4.60		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-117-84-0	< 4.60	ND	4.60		U
103-33-3	1,2-Diphenylhydrazine (as Azobenzene)	MB 140-93560/1-B-103-33-3	< 2.10	ND	2.10		U	< 2.40	ND	2.40		U	MB 140-93574/1-B-103-33-3	< 2.10	ND	2.10		U
206-44-0	Fluoranthene	MB 140-93560/1-B-206-44-0	< 2.50	ND	2.50		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-206-44-0	< 2.80	ND	2.80		U
86-73-7	Fluorene	MB 140-93560/1-B-86-73-7	< 2.20	ND	2.20		U	< 1.90	ND	1.90		U	MB 140-93574/1-B-86-73-7	< 2.10	ND	2.10		U
324-74-3	4-Fluorobiphenyl	MB 140-93560/1-B-324-74-3	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-324-74-3	< 10.00	ND	10.00		U
343-43-1	2-Fluorofluorene	MB 140-93560/1-B-343-43-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-343-43-1	< 10.00	ND	10.00		U
321-38-0	1-Fluoronaphthalene	MB 140-93560/1-B-321-38-0	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-321-38-0	< 10.00	ND	10.00		U
323-09-1	2-Fluoronaphthalene	MB 140-93560/1-B-323-09-1	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-323-09-1	< 10.00	ND	10.00		U
371-41-5	4-Fluorophenol	MB 140-93560/1-B-371-41-5	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-371-41-5	< 10.00	ND	10.00		U
118-74-1	Hexachlorobenzene	MB 140-93560/1-B-118-74-1	< 2.30	ND	2.30		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-118-74-1	< 2.10	ND	2.10		U
87-68-3	Hexachlorobutadiene	MB 140-93560/1-B-87-68-3	< 4.70	ND	4.70		U	< 3.30	ND	3.30		U	MB 140-93574/1-B-87-68-3	< 2.10	ND	2.10		U
77-47-4	Hexachlorocyclopentadiene	MB 140-93560/1-B-77-47-4	< 3.80	ND	3.80		U	< 3.00	ND	3.00		U	MB 140-93574/1-B-77-47-4	< 2.30	ND	2.30		U
67-72-1	Hexachloroethane	MB 140-93560/1-B-67-72-1	< 3.90	ND	3.90		U	< 3.10	ND	3.10		U	MB 140-93574/1-B-67-72-1	< 1.70	ND	1.70		U
193-39-5	Indeno[1,2,3-cd]pyrene	MB 140-93560/1-B-193-39-5	< 3.40	ND	3.40		U	< 2.50	ND	2.50		U	MB 140-93574/1-B-193-39-5	< 2.50	ND	2.50		U
78-59-1	Isophorone	MB 140-93560/1-B-78-59-1	< 1.20	ND	1.20		U	< 1.90	ND	1.90		U	MB 140-93574/1-B-78-59-1	< 2.30	ND	2.30		U
91-57-6	2-Methylnaphthalene	MB 140-93560/1-B-91-57-6	< 1.90	ND	1.90		U	< 3.20	ND	3.20		U	MB 140-93574/1-B-91-57-6	< 1.70	ND	1.70		U
95-48-7	2-Methylphenol	MB 140-93560/1-B-95-48-7	< 2.40	ND	2.40		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-95-48-7	< 1.90	ND	1.90		U
15831-10-4	3 & 4 Methylphenol	MB 140-93560/1-B-15831-10-4	< 2.60	ND	2.60		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-15831-10-4	< 2.70	ND	2.70		U
91-20-3	Naphthalene	MB 140-93560/1-B-91-20-3	< 2.10	ND	2.10		U	< 1.60	ND	1.60		U	MB 140-93574/1-B-91-20-3	< 2.10	ND	2.10		U
88-74-4	2-Nitroaniline	MB 140-93560/1-B-88-74-4	< 2.80	ND	2.80		U	< 2.40	ND	2.40		U	MB 140-93574/1-B-88-74-4	< 2.80	ND	2.80		U
99-09-2	3-Nitroaniline	MB 140-93560/1-B-99-09-2	< 2.60	ND	2.60		U	< 2.20	ND	2.20		U	MB 140-93574/1-B-99-09-2	< 5.20	ND	5.20		U
100-01-6	4-Nitroaniline	MB 140-93560/1-B-100-01-6	< 3.30	ND	3.30		U	< 2.60	ND	2.60		U	MB 140-93574/1-B-100-01-6	< 4.10	ND	4.10		U
98-95-3	Nitrobenzene	MB 140-93560/1-B-98-95-3	< 2.00	ND	2.00		U	< 3.10	ND	3.10		U	MB 140-93574/1-B-98-95-3	< 1.90	ND	1.90		U
88-75-5	2-Nitrophenol	MB 140-93560/1-B-88-75-5	< 3.20	ND	3.20		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-88-75-5	< 2.90	ND	2.90		U
100-02-7	4-Nitrophenol	MB 140-93560/1-B-100-02-7	< 5.50	ND	5.50		U	< 4.60	ND	4.60		U	MB 140-93574/1-B-100-02-7	< 4.90	ND	4.90		U
62-75-9	N-Nitrosodimethylamine	MB 140-93560/1-B-62-75-9	< 2.30	ND	2.30		U	< 2.00	ND	2.00		U	MB 140-93574/1-B-62-75-9	< 1.90	ND	1.90		U
621-64-7	N-Nitrosodi-n-propylamine	MB 140-93560/1-B-621-64-7	< 2.40	ND	2.40		U	< 3.80	ND	3.80		U	MB 140-93574/1-B-621-64-7	< 2.40	ND	2.40		U
86-30-6	N-Nitrosodiphenylamine	MB 140-93560/1-B-86-30-6	< 2.00	ND	2.00		U	< 2.00	ND	2.00		U	MB 140-93574/1-B-86-30-6	< 2.20	ND	2.20		U
348-51-6	o-Chlorofluorobenzene	MB 140-93560/1-B-348-51-6	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-348-51-6	< 10.00	ND	10.00		U
313-72-4	Octafluoronaphthalene	MB 140-93560/1-B-313-72-4	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-313-72-4	< 10.00	ND	10.00		U
108-60-1	2,2'-oxybis[1-chloropropane]	MB 140-93560/1-B-108-60-1	< 1.30	ND	1.30		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-108-60-1	< 2.20	ND	2.20		U
87-86-5	Pentachlorophenol	MB 140-93560/1-B-87-86-5	< 4.70	ND	4.70		U	< 12.00	ND	12.00		U	MB 140-93574/1-B-87-86-5	< 9.30	ND	9.30		U
784-14-5	2,3,4,5,6-Pentafluorobiphenyl	MB 140-93560/1-B-784-14-5	< 10.00	ND	10.00		U	< 10.00	ND	10.00		U	MB 140-93574/1-B-784-14-5	< 10.00	ND	10.00		U
85-01-8	Phenanthrene	MB 140-93560/1-B-85-01-8	< 2.10	ND	2.10		U	< 1.80	ND	1.80		U	MB 140-93574/1-B-85-01-8	< 2.30	ND	2.30		U
108-95-2	Phenol	MB 140-93560/1-B-108-95-2	< 2.40	ND	2.40		U	< 1.30	ND	1.30		U	MB 140-93574/1-B-108-95-2	< 2.20	ND	2.20		U
129-00-0	Pyrene	MB 140-93560/1-B-129-00-0	< 2.20	ND	2.20		U	< 2.30	ND	2.30		U	MB 140-93574/1-B-129-00-0	< 2.20	ND	2.20		U
110-86-1	Pyridine	MB 140-93560/1-B-110-86-1	< 5.40	ND	5.40		U	< 4.10	ND	4.10		U	MB 140-93574/1-B-110-86-1	< 4.90	ND	4.90		U
120-82-1	1,2,4-Trichlorobenzene	MB 140-93560/1-B-120-82-1	< 2.60	ND	2.60		U	< 2.90	ND	2.90		U	MB 140-93574/1-B-120-82-1	< 1.80	ND	1.80		U
95-95-4	2,4,5-Trichlorophenol	MB 140-93560/1-B-95-95-4	< 2.00	ND	2.00		U	< 1.50	ND	1.50		U	MB 140-93574/1-B-95-95-4	< 1.60	ND	1.60		U
88-06-2	2,4,6-Trichlorophenol	MB 140-93560/1-B-88-06-2	< 2.90	ND	2.90		U	< 2.20	ND	2.20		U	MB 140-93574/1-B-88-06-2	< 2.80	ND	2.80		U
	Subtotal - Non-detect		579.90					574.60						596.80				
	Subtotal - Detected		0.00					0.00						0.00				
	Grand Total		579.90					574.60						596.80				