

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**AECOM, INC.**

**N6274223F0104 RH Fire Suppression System**

**60697810**

**SGS Job Number: FC5726**

**Sampling Date: 05/01/23**



### Report to:

**AECOM, Inc**  
**7595 Technology Way**  
**Denver, CO 80237**  
**katie.abbott@aecom.com; mark.kromis@aecom.com;**  
**watson.tanji@aecom.com; kristin.rutherford@aecom.com**  
**ATTN: Katie Abbott**

**Total number of pages in report: 43**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Norm Farmer**  
**Technical Director**

**Client Service contact: Elvin Kumar 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Case Narrative/Conformance Summary</b> .....	<b>4</b>
<b>Section 3: Summary of Hits</b> .....	<b>5</b>
<b>Section 4: Sample Results</b> .....	<b>6</b>
<b>4.1:</b> FC5726-1: AF-RHMW12A-WGN01LF-2305W1 .....	7
<b>4.2:</b> FC5726-2: AF-RHMW12A-WGFD01LF-2305W1 .....	10
<b>4.3:</b> FC5726-3: AF-RHMW04-WGN01LF-2305W1 .....	13
<b>4.4:</b> FC5726-4: AF-RHMW06-WGN01LF-2305W1 .....	16
<b>4.5:</b> FC5726-5: AF-RHMW16-WGN01LF-2305W1 .....	19
<b>Section 5: Misc. Forms</b> .....	<b>22</b>
<b>5.1:</b> Chain of Custody .....	23
<b>5.2:</b> QC Evaluation: DOD QSM5.x Limits .....	28
<b>Section 6: MS Semi-volatiles - QC Data Summaries</b> .....	<b>29</b>
<b>6.1:</b> Method Blank Summary .....	30
<b>6.2:</b> Blank Spike Summary .....	36
<b>6.3:</b> Matrix Spike Summary .....	40
<b>6.4:</b> Duplicate Summary .....	42

1

2

3

4

5

6



### Sample Summary

AECOM, INC.

Job No: FC5726

N6274223F0104 RH Fire Suppression System  
Project No: 60697810

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC5726-1	05/01/23	09:45 MY	05/02/23	AQ	Ground Water	AF-RHMW12A-WGN01LF-2305W1
FC5726-2	05/01/23	09:45 MY	05/02/23	AQ	Ground Water	AF-RHMW12A-WGFD01LF-2305W1
FC5726-3	05/01/23	10:15 AY	05/02/23	AQ	Ground Water	AF-RHMW04-WGN01LF-2305W1
FC5726-4	05/01/23	11:40 AY	05/02/23	AQ	Ground Water	AF-RHMW06-WGN01LF-2305W1
FC5726-5	05/01/23	12:15 GA	05/02/23	AQ	Ground Water	AF-RHMW16-WGN01LF-2305W1

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** AECOM, INC.

**Job No:** FC5726

**Site:** N6274223F0104 RH Fire Suppression System

**Report Date:** 5/5/2023 5:43:56 PM

On 05/02/2023, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC5726 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### MS Semi-volatiles By Method EPA DRAFT 1633

**Matrix:** AQ

**Batch ID:** OP96701

Sample(s) FC5726-2MS, FC5726-3DUP were used as the QC samples indicated.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

---

Kim Benham, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FC5726  
**Account:** AECOM, INC.  
**Project:** N6274223F0104 RH Fire Suppression System  
**Collected:** 05/01/23



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FC5726-1 AF-RHMW12A-WGN01LF-2305W1**

Perfluoropentanoic acid	3.2 J	7.7	1.9	ng/l	EPA DRAFT 1633
Perfluorohexanoic acid	0.84 J	3.8	1.9	ng/l	EPA DRAFT 1633

**FC5726-2 AF-RHMW12A-WGFD01LF-2305W1**

Perfluoropentanoic acid	3.2 J	7.7	1.9	ng/l	EPA DRAFT 1633
Perfluorohexanoic acid	1.1 J	3.8	1.9	ng/l	EPA DRAFT 1633

**FC5726-3 AF-RHMW04-WGN01LF-2305W1**

No hits reported in this sample.

**FC5726-4 AF-RHMW06-WGN01LF-2305W1**

No hits reported in this sample.

**FC5726-5 AF-RHMW16-WGN01LF-2305W1**

No hits reported in this sample.

**Sample Results**

---

**Report of Analysis**

---

# Report of Analysis

Client Sample ID:	AF-RHMW12A-WGN01LF-2305W1		
Lab Sample ID:	FC5726-1	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q43971.D	1	05/04/23 16:49	NG	05/03/23 11:00	OP96701	S4Q635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	520 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.8 U	15	3.8	1.8	ng/l	
2706-90-3	Perfluoropentanoic acid	3.2	7.7	1.9	0.90	ng/l	J
307-24-4	Perfluorohexanoic acid	0.84	3.8	1.9	0.48	ng/l	J
375-85-9	Perfluoroheptanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
335-67-1	Perfluorooctanoic acid	0.96 U	3.8	0.96	0.48	ng/l	
375-95-1	Perfluorononanoic acid	1.9 U	3.8	1.9	0.59	ng/l	
335-76-2	Perfluorodecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
307-55-1	Perfluorododecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.9 U	3.8	1.9	0.81	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.8 U	4.8	3.8	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.9 U	3.8	1.9	0.67	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.9 U	3.8	1.9	0.52	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.9 U	3.8	1.9	0.55	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.9 U	3.8	1.9	0.62	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.8 U	4.8	3.8	1.1	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.1	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.3	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.7 U	19	7.7	4.0	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.9 U	3.8	1.9	0.64	ng/l	
31506-32-8	MeFOSA	3.8 U	7.7	3.8	0.96	ng/l	
4151-50-2	EtFOSA	3.8 U	7.7	3.8	0.96	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

# Report of Analysis

Client Sample ID:	AF-RHMW12A-WGN01LF-2305W1		
Lab Sample ID:	FC5726-1	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.8 U	4.8	3.8	0.96	ng/l	
2991-50-6	EtFOSAA	3.8 U	4.8	3.8	1.3	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	19 U	38	19	4.2	ng/l	
1691-99-2	EtFOSE	19 U	38	19	7.1	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.9 U	3.8	1.9	0.96	ng/l	
919005-14-4	ADONA	3.8 U	7.7	3.8	1.8	ng/l	
377-73-1	PFMPA	1.9 U	7.7	1.9	0.96	ng/l	
863090-89-5	PFMBA	3.8 U	7.7	3.8	1.1	ng/l	
151772-58-6	NFDHA	3.8 U	7.7	3.8	1.2	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.8 U	7.7	3.8	1.3	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.8 U	7.7	3.8	1.7	ng/l	
113507-82-7	PFEESA	1.9 U	7.7	1.9	0.75	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	9.6 U	19	9.6	4.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	19 U	96	19	8.4	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	19 U	96	19	7.5	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	71%		20-150%
	13C5-PFPeA	110%		20-150%
	13C5-PFHxA	108%		20-150%
	13C4-PFHpA	109%		20-150%
	13C8-PFOA	105%		20-150%
	13C9-PFNA	102%		20-150%
	13C6-PFDA	105%		20-150%
	13C7-PFUnDA	102%		20-150%
	13C2-PFDoDA	91%		20-150%
	13C2-PFTeDA	77%		20-150%
	13C3-PFBS	102%		20-150%
	13C3-PFHxS	101%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	AF-RHMW12A-WGN01LF-2305W1		
<b>Lab Sample ID:</b>	FC5726-1	<b>Date Sampled:</b>	05/01/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	05/02/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b>	n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	109%		20-150%
	13C8-FOSA	83%		20-150%
	d3-MeFOSA	85%		20-150%
	d5-EtFOSA	84%		20-150%
	d3-MeFOSAA	106%		20-150%
	d5-EtFOSAA	117%		20-150%
	d7-MeFOSE	60%		20-150%
	d9-EtFOSE	67%		20-150%
	13C2-4:2FTS	105%		20-180%
	13C2-6:2FTS	130%		20-180%
	13C2-8:2FTS	114%		20-180%
	13C3-HFPO-DA	100%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW12A-WGFD01LF-2305W1		
Lab Sample ID:	FC5726-2	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q43972.D	1	05/04/23 17:03	NG	05/03/23 11:00	OP96701	S4Q635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	520 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.8 U	15	3.8	1.8	ng/l	
2706-90-3	Perfluoropentanoic acid	3.2	7.7	1.9	0.90	ng/l	J
307-24-4	Perfluorohexanoic acid	1.1	3.8	1.9	0.48	ng/l	J
375-85-9	Perfluoroheptanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
335-67-1	Perfluorooctanoic acid	0.96 U	3.8	0.96	0.48	ng/l	
375-95-1	Perfluorononanoic acid	1.9 U	3.8	1.9	0.59	ng/l	
335-76-2	Perfluorodecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
307-55-1	Perfluorododecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.9 U	3.8	1.9	0.81	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.8 U	4.8	3.8	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.9 U	3.8	1.9	0.67	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.9 U	3.8	1.9	0.52	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.9 U	3.8	1.9	0.55	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.9 U	3.8	1.9	0.62	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.8 U	4.8	3.8	1.1	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.1	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.3	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.7 U	19	7.7	4.0	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.9 U	3.8	1.9	0.64	ng/l	
31506-32-8	MeFOSA	3.8 U	7.7	3.8	0.96	ng/l	
4151-50-2	EtFOSA	3.8 U	7.7	3.8	0.96	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4

# Report of Analysis

Client Sample ID:	AF-RHMW12A-WGFD01LF-2305W1		
Lab Sample ID:	FC5726-2	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.8 U	4.8	3.8	0.96	ng/l	
2991-50-6	EtFOSAA	3.8 U	4.8	3.8	1.3	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	19 U	38	19	4.2	ng/l	
1691-99-2	EtFOSE	19 U	38	19	7.1	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.9 U	3.8	1.9	0.96	ng/l	
919005-14-4	ADONA	3.8 U	7.7	3.8	1.8	ng/l	
377-73-1	PFMPA	1.9 U	7.7	1.9	0.96	ng/l	
863090-89-5	PFMBA	3.8 U	7.7	3.8	1.1	ng/l	
151772-58-6	NFDHA	3.8 U	7.7	3.8	1.2	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.8 U	7.7	3.8	1.3	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.8 U	7.7	3.8	1.7	ng/l	
113507-82-7	PFEESA	1.9 U	7.7	1.9	0.75	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	9.6 U	19	9.6	4.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	19 U	96	19	8.4	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	19 U	96	19	7.5	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	59%		20-150%
	13C5-PFPeA	107%		20-150%
	13C5-PFHxA	112%		20-150%
	13C4-PFHpA	110%		20-150%
	13C8-PFOA	106%		20-150%
	13C9-PFNA	99%		20-150%
	13C6-PFDA	101%		20-150%
	13C7-PFUnDA	103%		20-150%
	13C2-PFDoDA	94%		20-150%
	13C2-PFTeDA	80%		20-150%
	13C3-PFBS	106%		20-150%
	13C3-PFHxS	105%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	AF-RHMW12A-WGFD01LF-2305W1	
<b>Lab Sample ID:</b>	FC5726-2	<b>Date Sampled:</b> 05/01/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b> 05/02/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b> n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	102%		20-150%
	13C8-FOSA	82%		20-150%
	d3-MeFOSA	84%		20-150%
	d5-EtFOSA	84%		20-150%
	d3-MeFOSAA	106%		20-150%
	d5-EtFOSAA	110%		20-150%
	d7-MeFOSE	62%		20-150%
	d9-EtFOSE	67%		20-150%
	13C2-4:2FTS	121%		20-180%
	13C2-6:2FTS	129%		20-180%
	13C2-8:2FTS	124%		20-180%
	13C3-HFPO-DA	101%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW04-WGN01LF-2305W1		
Lab Sample ID:	FC5726-3	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q43974.D	1	05/04/23 17:31	NG	05/03/23 11:00	OP96701	S4Q635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	560 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.6 U	14	3.6	1.7	ng/l	
2706-90-3	Perfluoropentanoic acid	1.8 U	7.1	1.8	0.84	ng/l	
307-24-4	Perfluorohexanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
375-85-9	Perfluoroheptanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
335-67-1	Perfluorooctanoic acid	0.89 U	3.6	0.89	0.45	ng/l	
375-95-1	Perfluorononanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
335-76-2	Perfluorodecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
307-55-1	Perfluorododecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.8 U	3.6	1.8	0.75	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.8 U	3.6	1.8	0.45	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.6 U	4.5	3.6	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.8 U	3.6	1.8	0.62	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.8 U	3.6	1.8	0.45	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.8 U	3.6	1.8	0.48	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.8 U	3.6	1.8	0.51	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.8 U	3.6	1.8	0.57	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.6 U	4.5	3.6	1.0	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.1 U	18	7.1	2.9	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.7	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.8 U	3.6	1.8	0.60	ng/l	
31506-32-8	MeFOSA	3.6 U	7.1	3.6	0.89	ng/l	
4151-50-2	EtFOSA	3.6 U	7.1	3.6	0.89	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW04-WGN01LF-2305W1	
Lab Sample ID:	FC5726-3	Date Sampled: 05/01/23
Matrix:	AQ - Ground Water	Date Received: 05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	N6274223F0104 RH Fire Suppression System	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.6 U	4.5	3.6	0.89	ng/l	
2991-50-6	EtFOSAA	3.6 U	4.5	3.6	1.2	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	18 U	36	18	3.9	ng/l	
1691-99-2	EtFOSE	18 U	36	18	6.6	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.8 U	3.6	1.8	0.89	ng/l	
919005-14-4	ADONA	3.6 U	7.1	3.6	1.7	ng/l	
377-73-1	PFMPA	1.8 U	7.1	1.8	0.89	ng/l	
863090-89-5	PFMBA	3.6 U	7.1	3.6	1.0	ng/l	
151772-58-6	NFDHA	3.6 U	7.1	3.6	1.1	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.6 U	7.1	3.6	1.2	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.6 U	7.1	3.6	1.6	ng/l	
113507-82-7	PFEESA	1.8 U	7.1	1.8	0.70	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	8.9 U	18	8.9	4.0	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	18 U	89	18	7.8	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	18 U	89	18	7.0	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	101%		20-150%
	13C5-PFPeA	110%		20-150%
	13C5-PFHxA	113%		20-150%
	13C4-PFHpA	115%		20-150%
	13C8-PFOA	109%		20-150%
	13C9-PFNA	97%		20-150%
	13C6-PFDA	110%		20-150%
	13C7-PFUnDA	103%		20-150%
	13C2-PFDoDA	91%		20-150%
	13C2-PFTeDA	77%		20-150%
	13C3-PFBS	111%		20-150%
	13C3-PFHxS	105%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	AF-RHMW04-WGN01LF-2305W1		Date Sampled:	05/01/23
Lab Sample ID:	FC5726-3		Date Received:	05/02/23
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	N6274223F0104 RH Fire Suppression System			

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	101%		20-150%
	13C8-FOSA	73%		20-150%
	d3-MeFOSA	71%		20-150%
	d5-EtFOSA	77%		20-150%
	d3-MeFOSAA	109%		20-150%
	d5-EtFOSAA	111%		20-150%
	d7-MeFOSE	53%		20-150%
	d9-EtFOSE	58%		20-150%
	13C2-4:2FTS	134%		20-180%
	13C2-6:2FTS	146%		20-180%
	13C2-8:2FTS	140%		20-180%
	13C3-HFPO-DA	103%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW06-WGN01LF-2305W1		
Lab Sample ID:	FC5726-4	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q43976.D	1	05/04/23 17:59	NG	05/03/23 11:00	OP96701	S4Q635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	570 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.5 U	14	3.5	1.7	ng/l	
2706-90-3	Perfluoropentanoic acid	1.8 U	7.0	1.8	0.82	ng/l	
307-24-4	Perfluorohexanoic acid	1.8 U	3.5	1.8	0.44	ng/l	
375-85-9	Perfluoroheptanoic acid	1.8 U	3.5	1.8	0.44	ng/l	
335-67-1	Perfluorooctanoic acid	0.88 U	3.5	0.88	0.44	ng/l	
375-95-1	Perfluorononanoic acid	1.8 U	3.5	1.8	0.54	ng/l	
335-76-2	Perfluorodecanoic acid	1.8 U	3.5	1.8	0.44	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.8 U	3.5	1.8	0.53	ng/l	
307-55-1	Perfluorododecanoic acid	1.8 U	3.5	1.8	0.53	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.8 U	3.5	1.8	0.74	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.8 U	3.5	1.8	0.44	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.8 U	3.5	1.8	0.44	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.5 U	4.4	3.5	0.98	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.8 U	3.5	1.8	0.61	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.8 U	3.5	1.8	0.44	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.8 U	3.5	1.8	0.47	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.8 U	3.5	1.8	0.50	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.8 U	3.5	1.8	0.56	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.5 U	4.4	3.5	1.0	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.0 U	18	7.0	2.8	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.0 U	18	7.0	3.0	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.0 U	18	7.0	3.6	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.8 U	3.5	1.8	0.59	ng/l	
31506-32-8	MeFOSA	3.5 U	7.0	3.5	0.88	ng/l	
4151-50-2	EtFOSA	3.5 U	7.0	3.5	0.88	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



# Report of Analysis

Client Sample ID:	AF-RHMW06-WGN01LF-2305W1	
Lab Sample ID:	FC5726-4	Date Sampled: 05/01/23
Matrix:	AQ - Ground Water	Date Received: 05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	N6274223F0104 RH Fire Suppression System	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.5 U	4.4	3.5	0.88	ng/l	
2991-50-6	EtFOSAA	3.5 U	4.4	3.5	1.2	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	18 U	35	18	3.8	ng/l	
1691-99-2	EtFOSE	18 U	35	18	6.5	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.8 U	3.5	1.8	0.88	ng/l	
919005-14-4	ADONA	3.5 U	7.0	3.5	1.6	ng/l	
377-73-1	PFMPA	1.8 U	7.0	1.8	0.88	ng/l	
863090-89-5	PFMBA	3.5 U	7.0	3.5	1.0	ng/l	
151772-58-6	NFDHA	3.5 U	7.0	3.5	1.1	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.5 U	7.0	3.5	1.2	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.5 U	7.0	3.5	1.5	ng/l	
113507-82-7	PFEESA	1.8 U	7.0	1.8	0.68	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	8.8 U	18	8.8	4.0	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	18 U	88	18	7.7	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	18 U	88	18	6.9	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	103%		20-150%
	13C5-PFPeA	106%		20-150%
	13C5-PFHxA	109%		20-150%
	13C4-PFHpA	110%		20-150%
	13C8-PFOA	103%		20-150%
	13C9-PFNA	108%		20-150%
	13C6-PFDA	102%		20-150%
	13C7-PFUnDA	103%		20-150%
	13C2-PFDoDA	94%		20-150%
	13C2-PFTeDA	82%		20-150%
	13C3-PFBS	99%		20-150%
	13C3-PFHxS	101%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.4  
4

## Report of Analysis

Client Sample ID:	AF-RHMW06-WGN01LF-2305W1	
Lab Sample ID:	FC5726-4	Date Sampled: 05/01/23
Matrix:	AQ - Ground Water	Date Received: 05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	100%		20-150%
	13C8-FOSA	62%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	79%		20-150%
	d3-MeFOSAA	116%		20-150%
	d5-EtFOSAA	118%		20-150%
	d7-MeFOSE	54%		20-150%
	d9-EtFOSE	59%		20-150%
	13C2-4:2FTS	123%		20-180%
	13C2-6:2FTS	124%		20-180%
	13C2-8:2FTS	137%		20-180%
	13C3-HFPO-DA	98%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW16-WGN01LF-2305W1		
Lab Sample ID:	FC5726-5	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q43977.D	1	05/04/23 18:13	NG	05/03/23 11:00	OP96701	S4Q635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	520 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.8 U	15	3.8	1.8	ng/l	
2706-90-3	Perfluoropentanoic acid	1.9 U	7.7	1.9	0.90	ng/l	
307-24-4	Perfluorohexanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
375-85-9	Perfluoroheptanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
335-67-1	Perfluorooctanoic acid	0.96 U	3.8	0.96	0.48	ng/l	
375-95-1	Perfluorononanoic acid	1.9 U	3.8	1.9	0.59	ng/l	
335-76-2	Perfluorodecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
307-55-1	Perfluorododecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.9 U	3.8	1.9	0.81	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.8 U	4.8	3.8	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.9 U	3.8	1.9	0.67	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.9 U	3.8	1.9	0.52	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.9 U	3.8	1.9	0.55	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.9 U	3.8	1.9	0.62	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.8 U	4.8	3.8	1.1	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.1	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.3	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.7 U	19	7.7	4.0	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.9 U	3.8	1.9	0.64	ng/l	
31506-32-8	MeFOSA	3.8 U	7.7	3.8	0.96	ng/l	
4151-50-2	EtFOSA	3.8 U	7.7	3.8	0.96	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
4

# Report of Analysis

Client Sample ID:	AF-RHMW16-WGN01LF-2305W1		
Lab Sample ID:	FC5726-5	Date Sampled:	05/01/23
Matrix:	AQ - Ground Water	Date Received:	05/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.8 U	4.8	3.8	0.96	ng/l	
2991-50-6	EtFOSAA	3.8 U	4.8	3.8	1.3	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	19 U	38	19	4.2	ng/l	
1691-99-2	EtFOSE	19 U	38	19	7.1	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.9 U	3.8	1.9	0.96	ng/l	
919005-14-4	ADONA	3.8 U	7.7	3.8	1.8	ng/l	
377-73-1	PFMPA	1.9 U	7.7	1.9	0.96	ng/l	
863090-89-5	PFMBA	3.8 U	7.7	3.8	1.1	ng/l	
151772-58-6	NFDHA	3.8 U	7.7	3.8	1.2	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.8 U	7.7	3.8	1.3	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.8 U	7.7	3.8	1.7	ng/l	
113507-82-7	PFEESA	1.9 U	7.7	1.9	0.75	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	9.6 U	19	9.6	4.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	19 U	96	19	8.4	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	19 U	96	19	7.5	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	98%		20-150%
	13C5-PFPeA	111%		20-150%
	13C5-PFHxA	113%		20-150%
	13C4-PFHpA	115%		20-150%
	13C8-PFOA	109%		20-150%
	13C9-PFNA	105%		20-150%
	13C6-PFDA	109%		20-150%
	13C7-PFUnDA	108%		20-150%
	13C2-PFDoDA	101%		20-150%
	13C2-PFTeDA	89%		20-150%
	13C3-PFBS	108%		20-150%
	13C3-PFHxS	108%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	AF-RHMW16-WGN01LF-2305W1	
<b>Lab Sample ID:</b>	FC5726-5	<b>Date Sampled:</b> 05/01/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b> 05/02/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b> n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	103%		20-150%
	13C8-FOSA	85%		20-150%
	d3-MeFOSA	96%		20-150%
	d5-EtFOSA	94%		20-150%
	d3-MeFOSAA	127%		20-150%
	d5-EtFOSAA	127%		20-150%
	d7-MeFOSE	68%		20-150%
	d9-EtFOSE	74%		20-150%
	13C2-4:2FTS	128%		20-180%
	13C2-6:2FTS	138%		20-180%
	13C2-8:2FTS	141%		20-180%
	13C3-HFPO-DA	105%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Misc. Forms**

**Custody Documents and Other Forms**

---

**Includes the following where applicable:**

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits





SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
TEL: 407-425-6700 FAX: 407-425-0707  
www.sgs.com

FC5726

COC #: 2305W1AFSG08

SGS - ORLANDO JOB # :

PAGE 1 OF 1

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes				
Company Name: AECOM		Project Name: N6274223F0104 RH Fire Suppression System		<div style="text-align: center;"> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OJ - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe				
Address: 1001 Bishop St. ste 1600		Street																
City: Honolulu	State: HI	Zip: 96813	City Honolulu												State Hawaii			
Project Contact: Katie Abbott Project Manager: Watson Tanji Phone #: 303-796-4624 / 800-954-4512		Email: katie.abbott@aecom.com Email: watson.tanji@aecom.com													Project # 60697810		Fax #	
Sampler(s) Name(s) (Printed) Sampler 1: Avic, Ishii Sampler 2: Andy Young		Client Purchase Order #																
SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	PCB	PCO	NIOSH	MSDS	RESOL	NACH-ZINC	IN WATER	MICH	LAB USE ONLY		
3	AF-RHMMW04-WGN01LF-2305W1	5/11/23	1015	AV, AI	GW	3		X										
Turnaround Time ( Business days)		Data Deliverable Information					Comments / Remarks											
10 Day (Business) 7 Day <input checked="" type="checkbox"/> 5 Day 3 Day RUSH 2 Day RUSH 1 Day RUSH Other		Approved By: / Date:  <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S					EDMS upload database: JBPHE EDMS Coverage: AFFF Assessment Sampling GW United AWB 016 15697371											
Rush T/A Data Available VIA Email or Lablink																		
Sample Custody must be documented below each time samples change possession, including courier delivery.																		
1	Relinquished by Sampler/Affiliation Andy Young / AECOM	Date Time: 5/11/23 1245	2	Received By/Affiliation Brittany Tommez / AECOM	3	Relinquished By/Affiliation Brittany Tommez / AECOM	Date Time: 05/10/23 1600	4	Received By/Affiliation United Cargo	5	Relinquished by/Affiliation United Cargo	Date Time:	6	Received By/Affiliation	7	Relinquished By/Affiliation	Date Time:	
Lab Use Only: Cooler Temperature (s) Celsius (corrected):																		

PFAS\_COCs\_ALL.xls Rev 031318

http://www.sgs.com/en/terms-and-conditions

FC5726: Chain of Custody

Page 2 of 5







SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
TEL: 407-425-6700 FAX: 407-425-0707  
www.sgs.com

FC5726

COC #: 2305W1AFSG09

SGS - ORLANDO JOB #:

PAGE 1 OF 1

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes			
Company Name: AECOM		Project Name: N6274223F0104 RH Fire Suppression System		<div style="text-align: center; font-size: 2em; font-weight: bold;"> <del>           5/11/23         </del> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe			
Address: 1001 Bishop St. ste 1600		Street															
City: Honolulu State: HI Zip: 96813		City Honolulu State Hawaii															
Project Contact: Katie Abbott Email: katie.abbott@aecom.com		Project # 60697810															
Project Manager: Watson Tani Email: watson.tani@aecom.com		Fax #															
Phone #: 303-796-4624 / 808-954-4512		Client Purchase Order #		PFAS EPA Draft 1633										LAB USE ONLY			
Sampler(s) Name(s) (Printed)		COLLECTION		CONTAINER INFORMATION													
Sampler 1: <i>Andy Young</i> Sampler 2: <i>Andy Young</i>		Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NAME	PC	NICH	NHCS	MSDA	NACH-NAC	DI WATER	MESH	
4	AF-RHMMW06-WGN01LF-2305W1	5/11/23	1140	AY, AY	GW	3		X									X
Turnaround Time ( Business days)		Data Deliverable Information				Comments / Remarks											
<input type="checkbox"/> 10 Day (Business) <input type="checkbox"/> 7 Day <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> Other		Approved By: / Date: _____ <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S				EDMS upload database: JBPHE EDMS Coverage: AFFF Assessment Sampling GW United AWA 016 15497371											
Rush T/A Data Available VIA Email or Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.															
Relinquished by/Sampler/Affiliation		Date Time:		Received By/Affiliation				Date Time:		Received By/Affiliation				Date Time:		Received By/Affiliation	
1 <i>Andy Young / AECOM</i>		5/11/23 1249		2 <i>Brittany Tommez / AECOM</i>				3 <i>Brittany Tommez / AECOM</i>		4 <i>United Cargo</i>				5 <i>United Cargo</i>		6 <i>AYC 05/02/23 1428</i>	
5 <i>United Cargo</i>		Date Time:		Received By/Affiliation				Date Time:		Received By/Affiliation				Date Time:		Received By/Affiliation	
7		8		9				10		11				12		13	

PFAS\_COCS\_ALL.xls Rev 031318

5.1 5





## SGS Sample Receipt Summary

Job Number: FC5726

Client: AECOM

Project: N6274223F0104 RH Fire Suppression System

Date / Time Received: 5/2/2023 2:28:00 PM

Delivery Method: United Cargo/Airspace

Airbill #s: United Cargo AWB #: 016-15697371

Therm ID: IR 1;

Therm CF: -0.1;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.9);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N

N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S      N/A
- 3. Type Of TB Received

**Sample Information**

Y or N

N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_

Test Strip Lot #s: pH 0-3 230320

pH 10-12 25BDH07

Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 5/2/2023 2:28:00 PM

Reviewer: SP

Date: 5/3/2023

**FC5726: Chain of Custody**

Page 5 of 5

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FC5726  
**Account:** AECOM, INC.  
**Project:** N6274223F0104 RH Fire Suppression System  
**Collected:** 05/01/23

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No DOD QSM5.x Limits found for methods in this job.

---

\* Sample used for QC is not from job FC5726

5.2  
5

## MS Semi-volatiles

---

### QC Data Summaries

---

#### Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Instrument Blank

Job Number: FC5726  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S4Q635-IBLK	4Q43953.D	1	05/04/23	NG	n/a	n/a	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Instrument Blank

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S4Q635-IBLK	4Q43953.D	1	05/04/23	NG	n/a	n/a	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	106% 20-150%
	13C5-PFHxA	102% 20-150%
	13C4-PFHpA	102% 20-150%
	13C8-PFOA	101% 20-150%
	13C9-PFNA	96% 20-150%
	13C6-PFDA	101% 20-150%
	13C7-PFUnDA	100% 20-150%
	13C2-PFDoDA	97% 20-150%
	13C2-PFTeDA	93% 20-150%
	13C3-PFBS	99% 20-150%
	13C3-PFHxS	92% 20-150%
	13C8-PFOS	102% 20-150%
	13C8-FOSA	93% 20-150%
	d3-MeFOSA	94% 20-150%
	d5-EtFOSA	96% 20-150%
	d3-MeFOSAA	103% 20-150%
	d5-EtFOSAA	100% 20-150%
	d7-MeFOSE	82% 20-150%
	d9-EtFOSE	81% 20-150%
	13C2-4:2FTS	117% 20-180%
	13C2-6:2FTS	119% 20-180%
	13C2-8:2FTS	127% 20-180%
	13C3-HFPO-DA	101% 20-150%

6.1.1  
6

# Continuing Calibration Blank

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S4Q635-ICCB	4Q43967.D	1	05/04/23	NG	n/a	n/a	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	



# Continuing Calibration Blank

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S4Q635-ICCB	4Q43967.D	1	05/04/23	NG	n/a	n/a	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	102% 20-150%
	13C5-PFPeA	100% 20-150%
	13C5-PFHxA	99% 20-150%
	13C4-PFHpA	103% 20-150%
	13C8-PFOA	105% 20-150%
	13C9-PFNA	99% 20-150%
	13C6-PFDA	100% 20-150%
	13C7-PFUnDA	100% 20-150%
	13C2-PFDoDA	104% 20-150%
	13C2-PFTeDA	91% 20-150%
	13C3-PFBS	97% 20-150%
	13C3-PFHxS	100% 20-150%
	13C8-PFOS	94% 20-150%
	13C8-FOSA	91% 20-150%
	d3-MeFOSA	90% 20-150%
	d5-EtFOSA	95% 20-150%
	d3-MeFOSAA	108% 20-150%
	d5-EtFOSAA	108% 20-150%
	d7-MeFOSE	77% 20-150%
	d9-EtFOSE	77% 20-150%
	13C2-4:2FTS	127% 20-180%
	13C2-6:2FTS	130% 20-180%
	13C2-8:2FTS	121% 20-180%
	13C3-HFPO-DA	94% 20-150%

# Method Blank Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-MB	4Q43970.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	0.00063	0.0040	0.00050	ug/l	J
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Method Blank Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-MB	4Q43970.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	114% 20-150%
	13C5-PFPeA	115% 20-150%
	13C5-PFHxA	116% 20-150%
	13C4-PFHpA	117% 20-150%
	13C8-PFOA	106% 20-150%
	13C9-PFNA	112% 20-150%
	13C6-PFDA	108% 20-150%
	13C7-PFUnDA	115% 20-150%
	13C2-PFDoDA	99% 20-150%
	13C2-PFTeDA	82% 20-150%
	13C3-PFBS	105% 20-150%
	13C3-PFHxS	105% 20-150%
	13C8-PFOS	110% 20-150%
	13C8-FOSA	75% 20-150%
	d3-MeFOSA	65% 20-150%
	d5-EtFOSA	73% 20-150%
	d3-MeFOSAA	116% 20-150%
	d5-EtFOSAA	102% 20-150%
	d7-MeFOSE	57% 20-150%
	d9-EtFOSE	64% 20-150%
	13C2-4:2FTS	124% 20-180%
	13C2-6:2FTS	128% 20-180%
	13C2-8:2FTS	133% 20-180%
	13C3-HFPO-DA	109% 20-150%

# Blank Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-LLBS	4Q43969.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.03	0.0271	90	40-150
2706-90-3	Perfluoropentanoic acid	0.015	0.0136	91	40-150
307-24-4	Perfluorohexanoic acid	0.0075	0.0069	92	40-150
375-85-9	Perfluoroheptanoic acid	0.0075	0.0064	85	40-150
335-67-1	Perfluorooctanoic acid	0.0075	0.0065	87	40-150
375-95-1	Perfluorononanoic acid	0.0075	0.0062	83	40-150
335-76-2	Perfluorodecanoic acid	0.0075	0.0064	85	40-150
2058-94-8	Perfluoroundecanoic acid	0.0075	0.0066	88	40-150
307-55-1	Perfluorododecanoic acid	0.0075	0.0066	88	40-150
72629-94-8	Perfluorotridecanoic acid	0.0075	0.0060	80	40-150
376-06-7	Perfluorotetradecanoic acid	0.0075	0.0068	91	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00665	0.0063	95	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00706	0.0076	108	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00686	0.0070	102	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00715	0.0069	97	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00696	0.0066	95	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00722	0.0060	83	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00724	0.0064	88	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.00728	0.0054	74	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0281	0.0248	88	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0285	0.0291	102	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0288	0.0259	90	40-150
754-91-6	PFOSA	0.0075	0.0071	95	40-150
31506-32-8	MeFOSA	0.015	0.0154	103	40-150
4151-50-2	EtFOSA	0.015	0.0146	97	40-150
2355-31-9	MeFOSAA	0.0075	0.0060	80	40-150
2991-50-6	EtFOSAA	0.0075	0.0066	88	40-150
24448-09-7	MeFOSE	0.0375	0.0373	99	40-150
1691-99-2	EtFOSE	0.0375	0.0344	92	40-150
13252-13-6	HFPO-DA (GenX)	0.015	0.0139	93	40-150
919005-14-4	ADONA	0.0142	0.0138	97	40-150
377-73-1	PFMPA	0.015	0.0141	94	40-150
863090-89-5	PFMBA	0.015	0.0139	93	40-150
151772-58-6	NFDHA	0.015	0.0145	97	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.014	0.0131	93	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0142	0.0125	88	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-LLBS	4Q43969.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0134	0.0117	88	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.0375	0.0234	62	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.188	0.144	77	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.188	0.172	92	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	20-150%
	13C5-PFPeA	106%	20-150%
	13C5-PFHxA	104%	20-150%
	13C4-PFHpA	109%	20-150%
	13C8-PFOA	102%	20-150%
	13C9-PFNA	106%	20-150%
	13C6-PFDA	102%	20-150%
	13C7-PFUnDA	100%	20-150%
	13C2-PFDoDA	92%	20-150%
	13C2-PFTeDA	75%	20-150%
	13C3-PFBS	106%	20-150%
	13C3-PFHxS	103%	20-150%
	13C8-PFOS	98%	20-150%
	13C8-FOSA	59%	20-150%
	d3-MeFOSA	56%	20-150%
	d5-EtFOSA	60%	20-150%
	d3-MeFOSAA	110%	20-150%
	d5-EtFOSAA	106%	20-150%
	d7-MeFOSE	43%	20-150%
	d9-EtFOSE	52%	20-150%
	13C2-4:2FTS	136%	20-180%
	13C2-6:2FTS	131%	20-180%
	13C2-8:2FTS	136%	20-180%
	13C3-HFPO-DA	99%	20-150%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-BS	4Q43968.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.0924	92	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0469	94	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0233	93	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0225	90	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0222	89	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0216	86	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0225	90	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0241	96	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0232	93	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0216	86	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0247	99	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0208	94	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0212	90	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0202	88	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0232	97	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0231	100	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0201	84	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0204	85	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0189	78	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.0834	89	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0935	98	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.101	105	40-150
754-91-6	PFOSA	0.025	0.0215	86	40-150
31506-32-8	MeFOSA	0.05	0.0557	111	40-150
4151-50-2	EtFOSA	0.05	0.0458	92	40-150
2355-31-9	MeFOSAA	0.025	0.0238	95	40-150
2991-50-6	EtFOSAA	0.025	0.0222	89	40-150
24448-09-7	MeFOSE	0.125	0.122	98	40-150
1691-99-2	EtFOSE	0.125	0.116	93	40-150
13252-13-6	HFPO-DA (GenX)	0.05	0.0505	101	40-150
919005-14-4	ADONA	0.0473	0.0489	103	40-150
377-73-1	PFMPA	0.05	0.0477	95	40-150
863090-89-5	PFMBA	0.05	0.0472	94	40-150
151772-58-6	NFDHA	0.05	0.0466	93	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0468	0.0445	95	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0473	0.0405	86	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-BS	4Q43968.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0407	91	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.0772	62	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.517	83	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.553	88	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	108%	20-150%
	13C5-PFPeA	109%	20-150%
	13C5-PFHxA	108%	20-150%
	13C4-PFHpA	110%	20-150%
	13C8-PFOA	105%	20-150%
	13C9-PFNA	103%	20-150%
	13C6-PFDA	103%	20-150%
	13C7-PFUnDA	96%	20-150%
	13C2-PFDoDA	89%	20-150%
	13C2-PFTeDA	76%	20-150%
	13C3-PFBS	98%	20-150%
	13C3-PFHxS	101%	20-150%
	13C8-PFOS	103%	20-150%
	13C8-FOSA	71%	20-150%
	d3-MeFOSA	58%	20-150%
	d5-EtFOSA	75%	20-150%
	d3-MeFOSAA	113%	20-150%
	d5-EtFOSAA	111%	20-150%
	d7-MeFOSE	53%	20-150%
	d9-EtFOSE	61%	20-150%
	13C2-4:2FTS	116%	20-180%
	13C2-6:2FTS	119%	20-180%
	13C2-8:2FTS	114%	20-180%
	13C3-HFPO-DA	101%	20-150%

\* = Outside of Control Limits.

# Matrix Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-MS	4Q43973.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635
FC5726-2	4Q43972.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	FC5726-2 ug/l	Spike Q	MS ug/l	MS %	Limits	
375-22-4	Perfluorobutanoic acid	0.015 U		0.0926	0.0878	95	40-150
2706-90-3	Perfluoropentanoic acid	0.0032 J		0.0463	0.0472	95	40-150
307-24-4	Perfluorohexanoic acid	0.0011 J		0.0231	0.0217	89	40-150
375-85-9	Perfluoroheptanoic acid	0.0038 U		0.0231	0.0218	94	40-150
335-67-1	Perfluorooctanoic acid	0.0038 U		0.0231	0.0213	92	40-150
375-95-1	Perfluorononanoic acid	0.0038 U		0.0231	0.0214	92	40-150
335-76-2	Perfluorodecanoic acid	0.0038 U		0.0231	0.0236	102	40-150
2058-94-8	Perfluoroundecanoic acid	0.0038 U		0.0231	0.0220	95	40-150
307-55-1	Perfluorododecanoic acid	0.0038 U		0.0231	0.0213	92	40-150
72629-94-8	Perfluorotridecanoic acid	0.0038 U		0.0231	0.0213	92	40-150
376-06-7	Perfluorotetradecanoic acid	0.0038 U		0.0231	0.0224	97	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0038 U		0.0205	0.0195	95	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0048 U		0.0218	0.0202	93	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0038 U		0.0212	0.0194	92	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0038 U		0.0221	0.0226	102	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0038 U		0.0215	0.0221	103	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0038 U		0.0223	0.0189	85	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0038 U		0.0223	0.0184	82	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0048 U		0.0225	0.0167	74	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.019 U		0.0868	0.0895	103	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.019 U		0.088	0.0797	91	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.019 U		0.0889	0.0997	112	40-150
754-91-6	PFOSA	0.0038 U		0.0231	0.0219	95	40-150
31506-32-8	MeFOSA	0.0077 U		0.0463	0.0448	97	40-150
4151-50-2	EtFOSA	0.0077 U		0.0463	0.0475	103	40-150
2355-31-9	MeFOSAA	0.0048 U		0.0231	0.0203	88	40-150
2991-50-6	EtFOSAA	0.0048 U		0.0231	0.0203	88	40-150
24448-09-7	MeFOSE	0.038 U		0.116	0.113	98	40-150
1691-99-2	EtFOSE	0.038 U		0.116	0.111	96	40-150
13252-13-6	HFPO-DA (GenX)	0.0038 U		0.0463	0.0441	95	40-150
919005-14-4	ADONA	0.0077 U		0.0438	0.0447	102	40-150
377-73-1	PFMPA	0.0077 U		0.0463	0.0389	84	40-150
863090-89-5	PFMBA	0.0077 U		0.0463	0.0447	97	40-150
151772-58-6	NFDHA	0.0077 U		0.0463	0.0395	85	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0077 U		0.0433	0.0401	93	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0077 U		0.0438	0.0338	77	40-150

\* = Outside of Control Limits.



# Matrix Spike Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-MS	4Q43973.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635
FC5726-2	4Q43972.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	FC5726-2 ug/l	Spike Q	MS ug/l	MS %	Limits
113507-82-7	PFEESA	0.0077 U	0.0412	0.0365	89	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.019 U	0.116	0.0609	53	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.096 U	0.579	0.488	84	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.096 U	0.579	0.537	93	40-150

CAS No.	ID Standard Recoveries	MS	FC5726-2	Limits
	13C4-PFBA	55%	59%	20-150%
	13C5-PFPeA	105%	107%	20-150%
	13C5-PFHxA	110%	112%	20-150%
	13C4-PFHpA	109%	110%	20-150%
	13C8-PFOA	106%	106%	20-150%
	13C9-PFNA	99%	99%	20-150%
	13C6-PFDA	94%	101%	20-150%
	13C7-PFUnDA	87%	103%	20-150%
	13C2-PFDoDA	80%	94%	20-150%
	13C2-PFTeDA	70%	80%	20-150%
	13C3-PFBS	95%	106%	20-150%
	13C3-PFHxS	94%	105%	20-150%
	13C8-PFOS	91%	102%	20-150%
	13C8-FOSA	75%	82%	20-150%
	d3-MeFOSA	73%	84%	20-150%
	d5-EtFOSA	72%	84%	20-150%
	d3-MeFOSAA	102%	106%	20-150%
	d5-EtFOSAA	93%	110%	20-150%
	d7-MeFOSE	51%	62%	20-150%
	d9-EtFOSE	57%	67%	20-150%
	13C2-4:2FTS	102%	121%	20-180%
	13C2-6:2FTS	122%	129%	20-180%
	13C2-8:2FTS	99%	124%	20-180%
	13C3-HFPO-DA	102%	101%	20-150%

\* = Outside of Control Limits.

# Duplicate Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-DUP	4Q43975.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635
FC5726-3	4Q43974.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	FC5726-3 ug/l	DUP Q ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	0.014 U	ND		nc	30
2706-90-3	Perfluoropentanoic acid	0.0071 U	ND		nc	30
307-24-4	Perfluorohexanoic acid	0.0036 U	ND		nc	30
375-85-9	Perfluoroheptanoic acid	0.0036 U	ND		nc	30
335-67-1	Perfluorooctanoic acid	0.0036 U	ND		nc	30
375-95-1	Perfluorononanoic acid	0.0036 U	ND		nc	30
335-76-2	Perfluorodecanoic acid	0.0036 U	ND		nc	30
2058-94-8	Perfluoroundecanoic acid	0.0036 U	ND		nc	30
307-55-1	Perfluorododecanoic acid	0.0036 U	ND		nc	30
72629-94-8	Perfluorotridecanoic acid	0.0036 U	ND		nc	30
376-06-7	Perfluorotetradecanoic acid	0.0036 U	ND		nc	30
375-73-5	Perfluorobutanesulfonic acid	0.0036 U	ND		nc	30
2706-91-4	Perfluoropentanesulfonic acid	0.0045 U	ND		nc	30
355-46-4	Perfluorohexanesulfonic acid	0.0036 U	ND		nc	30
375-92-8	Perfluoroheptanesulfonic acid	0.0036 U	ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.0036 U	ND		nc	30
68259-12-1	Perfluorononanesulfonic acid	0.0036 U	ND		nc	30
335-77-3	Perfluorodecanesulfonic acid	0.0036 U	ND		nc	30
79780-39-5	Perfluorododecanesulfonic aci	0.0045 U	ND		nc	30
757124-72-44:2	Fluorotelomer sulfonate	0.018 U	ND		nc	30
27619-97-2	6:2 Fluorotelomer sulfonate	0.018 U	ND		nc	30
39108-34-4	8:2 Fluorotelomer sulfonate	0.018 U	ND		nc	30
754-91-6	PFOSA	0.0036 U	ND		nc	30
31506-32-8	MeFOSA	0.0071 U	ND		nc	30
4151-50-2	EtFOSA	0.0071 U	ND		nc	30
2355-31-9	MeFOSAA	0.0045 U	ND		nc	30
2991-50-6	EtFOSAA	0.0045 U	ND		nc	30
24448-09-7	MeFOSE	0.036 U	ND		nc	30
1691-99-2	EtFOSE	0.036 U	ND		nc	30
13252-13-6	HFPO-DA (GenX)	0.0036 U	ND		nc	30
919005-14-4	ADONA	0.0071 U	ND		nc	30
377-73-1	PFMPA	0.0071 U	ND		nc	30
863090-89-5	PFMBA	0.0071 U	ND		nc	30
151772-58-6	NFDHA	0.0071 U	ND		nc	30
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0071 U	ND		nc	30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0071 U	ND		nc	30

\* = Outside of Control Limits.

# Duplicate Summary

Job Number: FC5726  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96701-DUP	4Q43975.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635
FC5726-3	4Q43974.D	1	05/04/23	NG	05/03/23	OP96701	S4Q635

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC5726-1, FC5726-2, FC5726-3, FC5726-4, FC5726-5

CAS No.	Compound	FC5726-3 ug/l	DUP Q	ug/l	Q	RPD	Limits
113507-82-7PFEESA		0.0071 U	ND			nc	30
356-02-5	3:3 Fluorotelomer carboxylate	0.018 U	ND			nc	30
914637-49-35:3	Fluorotelomer carboxylate	0.089 U	ND			nc	30
812-70-4	7:3 Fluorotelomer carboxylate	0.089 U	ND			nc	30

CAS No.	ID Standard Recoveries	DUP	FC5726-3	Limits
	13C4-PFBA	99%	101%	20-150%
	13C5-PFPeA	104%	110%	20-150%
	13C5-PFHxA	106%	113%	20-150%
	13C4-PFHpA	106%	115%	20-150%
	13C8-PFOA	99%	109%	20-150%
	13C9-PFNA	103%	97%	20-150%
	13C6-PFDA	95%	110%	20-150%
	13C7-PFUnDA	95%	103%	20-150%
	13C2-PFDoDA	85%	91%	20-150%
	13C2-PFTeDA	73%	77%	20-150%
	13C3-PFBS	105%	111%	20-150%
	13C3-PFHxS	107%	105%	20-150%
	13C8-PFOS	97%	101%	20-150%
	13C8-FOSA	74%	73%	20-150%
	d3-MeFOSA	69%	71%	20-150%
	d5-EtFOSA	73%	77%	20-150%
	d3-MeFOSAA	103%	109%	20-150%
	d5-EtFOSAA	106%	111%	20-150%
	d7-MeFOSE	54%	53%	20-150%
	d9-EtFOSE	58%	58%	20-150%
	13C2-4:2FTS	117%	134%	20-180%
	13C2-6:2FTS	132%	146%	20-180%
	13C2-8:2FTS	127%	140%	20-180%
	13C3-HFPO-DA	97%	103%	20-150%

\* = Outside of Control Limits.