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Automated Report

Technical Report for

AECOM, INC.

N6274223F0104 RH Fire Suppression System

60697810

SGS Job Number: FC6699

Sampling Date: 06/06/23



Report to:

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Total number of pages in report: 41



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

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Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)
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Test results relate only to samples analyzed.

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Sample Summary

AECOM, INC.

Job No: FC6699

N6274223F0104 RH Fire Suppression System
Project No: 60697810

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|---------------|-------------|--------------|----------------------------|
| FC6699-1 | 06/06/23 | 09:40 | CPAL 06/07/23 | AQ | Ground Water | AF-HDMW225303-WGN01LF-2306 |
| FC6699-2 | 06/06/23 | 11:10 | CPAL 06/07/23 | AQ | Ground Water | AF-RHMW12A-WGN01LF-2306 |
| FC6699-3 | 06/06/23 | 11:10 | CPAL 06/07/23 | AQ | Ground Water | AF-RHMW12A-WGFD01LF-2306 |

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AECOM, INC.

Job No: FC6699

Site: N6274223F0104 RH Fire Suppression System

Report Date: 6/13/2023 3:35:49 PM

On 06/07/2023, 3 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 2.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC6699 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: OP97275

Sample(s) FC6649-1MS, FC6649-4DUP, FC6649-1MS were used as the QC samples indicated.

Blank Spike Recovery(s) for 3:3 Fluorotelomer carboxylate are outside control limits.

Matrix Spike Recovery(s) for 3:3 Fluorotelomer carboxylate, PFMPA are outside control limits. Probable cause is due to matrix interference.

RPD(s) for Duplicate for 6:2 Fluorotelomer sulfonate are outside control limits for sample OP97275-DUP. Probable cause is due to sample non-homogeneity.

FC6699-1 for 3:3 Fluorotelomer carboxylate: Associated BS recovery outside control limits.

FC6699-1 for MeFOSAA: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-1 for Perfluorodecanesulfonic acid: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-1 for PFEESA: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-2 for 3:3 Fluorotelomer carboxylate: Associated BS recovery outside control limits.

FC6699-2 for MeFOSAA: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-2 for Perfluorodecanesulfonic acid: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-2 for PFEESA: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-3 for 3:3 Fluorotelomer carboxylate: Associated BS recovery outside control limits.

FC6699-3 for MeFOSAA: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-3 for Perfluorodecanesulfonic acid: Associated Low Level CCV outside of control limits high, sample was ND.

FC6699-3 for PFEESA: Associated Low Level CCV outside of control limits high, sample was ND.

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: FC6699
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 06/06/23



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

FC6699-1 **AF-HDMW225303-WGN01LF-2306**

No hits reported in this sample.

FC6699-2 **AF-RHMW12A-WGN01LF-2306**

| | | | | | |
|-------------------------|--------|-----|-----|------|----------------|
| Perfluoropentanoic acid | 2.0 J | 7.1 | 1.8 | ng/l | EPA DRAFT 1633 |
| Perfluorohexanoic acid | 0.70 J | 3.6 | 1.8 | ng/l | EPA DRAFT 1633 |

FC6699-3 **AF-RHMW12A-WGFD01LF-2306**

| | | | | | |
|-------------------------|--------|-----|-----|------|----------------|
| Perfluoropentanoic acid | 1.8 J | 7.1 | 1.8 | ng/l | EPA DRAFT 1633 |
| Perfluorohexanoic acid | 0.63 J | 3.6 | 1.8 | ng/l | EPA DRAFT 1633 |

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-HDMW225303-WGN01LF-2306 | | |
| Lab Sample ID: | FC6699-1 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 | 6Q19283.D | 1 | 06/13/23 01:49 | MV | 06/09/23 11:30 | OP97275 | S6Q287 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 550 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 | 15 | 3.6 | 1.7 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.8 U | 7.3 | 1.8 | 0.85 | 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 | 0.91 U | 3.6 | 0.91 | 0.45 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.8 U | 3.6 | 1.8 | 0.55 | 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 | 0.55 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.8 U | 3.6 | 1.8 | 0.55 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.8 U | 3.6 | 1.8 | 0.76 | 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 | 0.64 | 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 | 0.49 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.8 U | 3.6 | 1.8 | 0.52 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid ^a | 1.8 U | 3.6 | 1.8 | 0.58 | 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 | 7.3 U | 18 | 7.3 | 2.9 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.3 U | 18 | 7.3 | 3.2 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.3 U | 18 | 7.3 | 3.7 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.8 U | 3.6 | 1.8 | 0.61 | ng/l | |
| 31506-32-8 | MeFOSA | 3.6 U | 7.3 | 3.6 | 0.91 | ng/l | |
| 4151-50-2 | EtFOSA | 3.6 U | 7.3 | 3.6 | 0.91 | 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-HDMW225303-WGN01LF-2306 | | |
| Lab Sample ID: | FC6699-1 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 ^a | 3.6 U | 4.5 | 3.6 | 0.91 | 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 | 4.0 | ng/l | |
| 1691-99-2 | EtFOSE | 18 U | 36 | 18 | 6.7 | ng/l | |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|--|
| 13252-13-6 | HFPO-DA (GenX) | 1.8 U | 3.6 | 1.8 | 0.91 | ng/l | |
| 919005-14-4 | ADONA | 3.6 U | 7.3 | 3.6 | 1.7 | ng/l | |
| 377-73-1 | PFMPA | 1.8 U | 7.3 | 1.8 | 0.91 | ng/l | |
| 863090-89-5 | PFMBA | 3.6 U | 7.3 | 3.6 | 1.0 | ng/l | |
| 151772-58-6 | NFDHA | 3.6 U | 7.3 | 3.6 | 1.1 | ng/l | |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|--|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.6 U | 7.3 | 3.6 | 1.3 | ng/l | |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.6 U | 7.3 | 3.6 | 1.6 | ng/l | |
| 113507-82-7 | PFEESA ^a | 1.8 U | 7.3 | 1.8 | 0.71 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|---|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylat ^b | 9.1 U | 18 | 9.1 | 4.1 | ng/l | |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 18 U | 91 | 18 | 7.9 | ng/l | |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 18 U | 91 | 18 | 7.1 | ng/l | |

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

| | | | | |
|--|-------------|------|--|---------|
| | 13C4-PFBA | 113% | | 20-150% |
| | 13C5-PFPeA | 110% | | 20-150% |
| | 13C5-PFHxA | 111% | | 20-150% |
| | 13C4-PFHpA | 106% | | 20-150% |
| | 13C8-PFOA | 111% | | 20-150% |
| | 13C9-PFNA | 113% | | 20-150% |
| | 13C6-PFDA | 117% | | 20-150% |
| | 13C7-PFUnDA | 99% | | 20-150% |
| | 13C2-PFDoDA | 99% | | 20-150% |
| | 13C2-PFTeDA | 90% | | 20-150% |
| | 13C3-PFBS | 112% | | 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

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-HDMW225303-WGN01LF-2306 | | |
| Lab Sample ID: | FC6699-1 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 | 107% | | 20-150% |
| | 13C8-FOSA | 90% | | 20-150% |
| | d3-MeFOSA | 90% | | 20-150% |
| | d5-EtFOSA | 93% | | 20-150% |
| | d3-MeFOSAA | 103% | | 20-150% |
| | d5-EtFOSAA | 99% | | 20-150% |
| | d7-MeFOSE | 75% | | 20-150% |
| | d9-EtFOSE | 78% | | 20-150% |
| | 13C2-4:2FTS | 118% | | 20-180% |
| | 13C2-6:2FTS | 113% | | 20-180% |
| | 13C2-8:2FTS | 108% | | 20-180% |
| | 13C3-HFPO-DA | 106% | | 20-150% |

- (a) Associated Low Level CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits.

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-WGN01LF-2306 | | |
| Lab Sample ID: | FC6699-2 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 | 6Q19286.D | 1 | 06/13/23 02:31 | MV | 06/09/23 11:30 | OP97275 | S6Q287 |
| 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 | 2.0 | 7.1 | 1.8 | 0.84 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 0.70 | 3.6 | 1.8 | 0.45 | ng/l | J |
| 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 ^a | 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-RHMW12A-WGN01LF-2306 | | |
| Lab Sample ID: | FC6699-2 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 ^a | 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 ^a | 1.8 U | 7.1 | 1.8 | 0.70 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|---|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylat ^b | 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 | 73% | | 20-150% |
| | 13C5-PFPeA | 125% | | 20-150% |
| | 13C5-PFHxA | 121% | | 20-150% |
| | 13C4-PFHpA | 119% | | 20-150% |
| | 13C8-PFOA | 119% | | 20-150% |
| | 13C9-PFNA | 122% | | 20-150% |
| | 13C6-PFDA | 114% | | 20-150% |
| | 13C7-PFUnDA | 105% | | 20-150% |
| | 13C2-PFDoDA | 103% | | 20-150% |
| | 13C2-PFTeDA | 83% | | 20-150% |
| | 13C3-PFBS | 120% | | 20-150% |
| | 13C3-PFHxS | 125% | | 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-WGN01LF-2306 | | Date Sampled: 06/06/23 |
| Lab Sample ID: FC6699-2 | | Date Received: 06/07/23 |
| 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 | 112% | | 20-150% |
| | 13C8-FOSA | 101% | | 20-150% |
| | d3-MeFOSA | 91% | | 20-150% |
| | d5-EtFOSA | 91% | | 20-150% |
| | d3-MeFOSAA | 97% | | 20-150% |
| | d5-EtFOSAA | 98% | | 20-150% |
| | d7-MeFOSE | 74% | | 20-150% |
| | d9-EtFOSE | 74% | | 20-150% |
| | 13C2-4:2FTS | 134% | | 20-180% |
| | 13C2-6:2FTS | 130% | | 20-180% |
| | 13C2-8:2FTS | 111% | | 20-180% |
| | 13C3-HFPO-DA | 123% | | 20-150% |

- (a) Associated Low Level CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits.

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-2306 | | |
| Lab Sample ID: | FC6699-3 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 | 6Q19287.D | 1 | 06/13/23 02:45 | MV | 06/09/23 11:30 | OP97275 | S6Q287 |
| 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 | 7.1 | 1.8 | 0.84 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 0.63 | 3.6 | 1.8 | 0.45 | ng/l | J |
| 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 ^a | 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-RHMW12A-WGFD01LF-2306 | | |
| Lab Sample ID: | FC6699-3 | Date Sampled: | 06/06/23 |
| Matrix: | AQ - Ground Water | Date Received: | 06/07/23 |
| 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 ^a | 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 ^a | 1.8 U | 7.1 | 1.8 | 0.70 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|---|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylat ^b | 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 | 70% | | 20-150% |
| | 13C5-PFPeA | 114% | | 20-150% |
| | 13C5-PFHxA | 107% | | 20-150% |
| | 13C4-PFHpA | 110% | | 20-150% |
| | 13C8-PFOA | 115% | | 20-150% |
| | 13C9-PFNA | 119% | | 20-150% |
| | 13C6-PFDA | 112% | | 20-150% |
| | 13C7-PFUnDA | 97% | | 20-150% |
| | 13C2-PFDoDA | 94% | | 20-150% |
| | 13C2-PFTeDA | 79% | | 20-150% |
| | 13C3-PFBS | 115% | | 20-150% |
| | 13C3-PFHxS | 114% | | 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-2306 | | Date Sampled: 06/06/23 |
| Lab Sample ID: FC6699-3 | | Date Received: 06/07/23 |
| 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 | 110% | | 20-150% |
| | 13C8-FOSA | 96% | | 20-150% |
| | d3-MeFOSA | 86% | | 20-150% |
| | d5-EtFOSA | 91% | | 20-150% |
| | d3-MeFOSAA | 103% | | 20-150% |
| | d5-EtFOSAA | 100% | | 20-150% |
| | d7-MeFOSE | 71% | | 20-150% |
| | d9-EtFOSE | 76% | | 20-150% |
| | 13C2-4:2FTS | 133% | | 20-180% |
| | 13C2-6:2FTS | 123% | | 20-180% |
| | 13C2-8:2FTS | 114% | | 20-180% |
| | 13C3-HFPO-DA | 111% | | 20-150% |

- (a) Associated Low Level CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits.

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

COC #: 2306AFSG04

SGS - ORLANDO JOB #:

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SGS - ORLANDO Quote #

SKIFF #

FC6699

| Client / Reporting Information | | Project Information | | | | | | | | | | Analytical Information | | | | | | | | | | Matrix Codes | |
|--|--------------------------------|--|------|--|-----------------------|--------------------|-------|-----------------------------|-----|-------------|------|-------------------------|-----------|---|--------------|-------------------------|--|------------|--|-------------------------|--|---|--|
| Company Name: AECOM | | Project Name: N6274223F0104 RH Fire Suppression System | | | | | | | | | | | | | | | | | | | | 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 Tanji Email: watson.tanji@aecom.com | | Fax # | | | | | | | | | | PFAS EPA Draft 1633 | | | | | | | | | | | |
| Phone #: 303-796-4624 / 808-954-4512 | | Client Purchase Order # | | | | | | | | | | | | | | | | | | | | | |
| Sampler(s) Name(s) (Printed) Sampler 1: Anthony L Sampler 2: Cristian P | | | | | | | | | | | | | | | | | | | | | | | |
| SGS Orlando Sample # | Field ID / Point of Collection | COLLECTION | | | CONTAINER INFORMATION | | | | | | | | | | LAB USE ONLY | | | | | | | | |
| | | DATE | TIME | SAMPLED BY: | MATRIX | TOTAL # OF BOTTLES | OTHER | NONE | HCl | NaOH | PK03 | PK04 | NaOH/NaAC | D/WATER | | MECH | | | | | | | |
| 1 | AF-HDMW225303-WGN01LF-2306 | 6/6/23 | 0940 | CP, AL | GW | 3 | | X | | | | | | | | | | | | | | | |
| INITIAL ASSESSMENT <u>SP</u> | | | | | | | | | | | | | | | | | | | | | | | |
| LABEL VERIFICATION <u>SP</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Day (Business) | | Approved By: / Date: | | Data Deliverable Information | | | | | | | | | | Comments / Remarks | | | | | | | | | |
| 7 Day | | | | <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 ANB 0169522966 | | | | | | | | | |
| 5 Day | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Day RUSH | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Day RUSH | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Day RUSH | | | | | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | | | | | |
| 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/Affiliation | | Date Time: | | Received By/Affiliation | | Date Time: | | Relinquished By/Affiliation | | Date Time: | | Received By/Affiliation | | Date Time: | | Received By/Affiliation | | Date Time: | | Received By/Affiliation | | | |
| 1 Anthony Lopez AL | | 6/6/23 1240 | | JOSIAH LINDQUIST | | 6/6/23 1370 | | JOSIAH LINDQUIST | | 6/6/23 1370 | | United Cargo | | | | | | | | | | | |
| 5 United Cargo | | | | JOSIAH LINDQUIST | | 6/6/23 1730 | | | | | | | | | | | | | | | | | |
| Lab Use Only : Cooler Temperature (s) Celsius (corrected): | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 IR #1 | | | | | | | | | | | | | | | | | | | | | | | |

5.1
5

FC6699: Chain of Custody

Page 1 of 3





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

COC #: 2306AFSG05

SGS - ORLANDO JOB # : _____

PAGE 1 OF 1

FC6699

SGS - ORLANDO Quote # _____

SKIFF # _____

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | | | | | | | | | Matrix Codes | | |
|--|--------------------------------|-------------------------------|---|---|-----------------------|---|-------|-------------------------------|----|---|------|---|---------|----------|---------------------|--------------|------|--|--|---|---------------|--|
| Company Name: AECOM | | | | Project Name: N6274223F0104 RH Fire Suppression System | | | | | | | | | | | | | | | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - 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 Tanji | | Email: watson.tanji@aecom.com | | Fax # | | | | | | | | | | | | | | | | | | |
| Sampler(s) Name(s) (Printed) Sampler 1: <u>Anthony L</u> Sampler 2: <u>Cristian P</u> | | | | Client Purchase Order # | | | | | | | | | | | | | | | | | | |
| SGS Orlando Sample # | Field ID / Point of Collection | COLLECTION | | | CONTAINER INFORMATION | | | | | | | | | | PFAS EPA Draft 1633 | LAB USE ONLY | | | | | | |
| | | DATE | TIME | SAMPLED BY | MATRIX | TOTAL # OF BOTTLES | OTHER | NONE | FC | NIOSH | NIH3 | NIH34 | NIH3ZNC | DI WATER | | | MESH | | | | | |
| 2 | AF-RHMW12A-WGN01LF-2306 | 6/6/23 | 1110 | CP | GW | 3 | | X | | | | | | | | | X | | | | | |
| 3 | AF-RHMW12A-WGFD01LF-2306 | 6/6/23 | 1110 | CP | GW | 3 | | X | | | | | | | | | X | | | | | |
| | | | | | | | | | | | | <i>AL 6/6/23</i> | | | | | | | | | | |
| 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 <u>United AWB 0169522966</u> | | | | | | | | | | | | | | | | |
| Rush TIA Data Available VIA Email or Lablink | | | | | | Sample Custody must be documented below each time samples change possession, including courier delivery. | | | | | | | | | | | | | | | | |
| Relinquished by Sampler/Affiliation 1 <u>Anthony Loxcock AECOM</u> | | Date Time: <u>6/6/23 1412</u> | | Received By/Affiliation <u>JOSHUA WINDQUIST AECOM</u> | | Relinquished By/Affiliation <u>AECOM</u> | | Date Time: <u>6/6/23 1510</u> | | Received By/Affiliation <u>United Cary</u> | | | | | | | | | | | | |
| Relinquished by/Affiliation 5 <u>United Cary</u> | | Date Time: _____ | | Received By/Affiliation <u>JL</u> <u>06/07/23 1730</u> | | Relinquished By/Affiliation <u>JOSHUA WINDQUIST</u> | | Date Time: _____ | | Received By/Affiliation 8 _____ | | | | | | | | | | | | |
| Lab Use Only : Cooler / temperature (s) Celsius (corrected): _____ | | | | | | | | | | | | http://www.sgs.com/en/terms-and-conditions | | | | | | | | | | |

PFAS_COCS_ALL.xls Rev 031318

FC6699: Chain of Custody

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5.1
5

SGS Sample Receipt Summary

Job Number: FC6699

Client: AECOM

Project: N6274223F0104 RH Fire Suppression System

Date / Time Received: 6/7/2023 5:30:00 PM

Delivery Method: United Cargo/Airspace

Airbill #'s: United Cargo AWB #: 016-09522446

Therm ID: IR 1;

Therm CF: -0.1;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

Cooler Information

| | Y | or | N |
|-----------------------------|-------------------------------------|----|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 4. Cooler temp verification | IR Gun | | |
| 5. Cooler media | Ice (Bag) | | |

Trip Blank Information

| | Y | or | N | N/A |
|--------------------------------|--------------------------|----|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | W | or | S | N/A |
| 3. Type Of TB Received | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

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

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 _____ Other: (Specify) pH 1.0 - 12.0 _____ 222221 _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 6/7/2023 5:30:00 PM

Reviewer: SP

Date: 6/9/2023

FC6699: Chain of Custody

Page 3 of 3

5.1
5

QC Evaluation: DOD QSM5.x Limits

Job Number: FC6699
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 06/06/23

| 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 FC6699

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: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-IBLK | 6Q19248.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| 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 | |

Instrument Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q287-IBLK | 6Q19248.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| 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 | 97% 20-150% |
| | 13C5-PFHxA | 99% 20-150% |
| | 13C4-PFHpA | 100% 20-150% |
| | 13C8-PFOA | 97% 20-150% |
| | 13C9-PFNA | 100% 20-150% |
| | 13C6-PFDA | 100% 20-150% |
| | 13C7-PFUnDA | 89% 20-150% |
| | 13C2-PFDoDA | 93% 20-150% |
| | 13C2-PFTeDA | 91% 20-150% |
| | 13C3-PFBS | 103% 20-150% |
| | 13C3-PFHxS | 101% 20-150% |
| | 13C8-PFOS | 102% 20-150% |
| | 13C8-FOSA | 101% 20-150% |
| | d3-MeFOSA | 103% 20-150% |
| | d5-EtFOSA | 107% 20-150% |
| | d3-MeFOSAA | 99% 20-150% |
| | d5-EtFOSAA | 109% 20-150% |
| | d7-MeFOSE | 100% 20-150% |
| | d9-EtFOSE | 95% 20-150% |
| | 13C2-4:2FTS | 121% 20-180% |
| | 13C2-6:2FTS | 122% 20-180% |
| | 13C2-8:2FTS | 118% 20-180% |
| | 13C3-HFPO-DA | 93% 20-150% |

6.1.1
6

Continuing Calibration Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-ICCB | 6Q19273.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1

| 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: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q287-ICCB | 6Q19273.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1

| 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 | 96% 20-150% |
| | 13C5-PFHxA | 92% 20-150% |
| | 13C4-PFHpA | 100% 20-150% |
| | 13C8-PFOA | 100% 20-150% |
| | 13C9-PFNA | 96% 20-150% |
| | 13C6-PFDA | 100% 20-150% |
| | 13C7-PFUnDA | 101% 20-150% |
| | 13C2-PFDoDA | 98% 20-150% |
| | 13C2-PFTeDA | 88% 20-150% |
| | 13C3-PFBS | 101% 20-150% |
| | 13C3-PFHxS | 102% 20-150% |
| | 13C8-PFOS | 97% 20-150% |
| | 13C8-FOSA | 100% 20-150% |
| | d3-MeFOSA | 91% 20-150% |
| | d5-EtFOSA | 97% 20-150% |
| | d3-MeFOSAA | 102% 20-150% |
| | d5-EtFOSAA | 94% 20-150% |
| | d7-MeFOSE | 86% 20-150% |
| | d9-EtFOSE | 82% 20-150% |
| | 13C2-4:2FTS | 113% 20-180% |
| | 13C2-6:2FTS | 123% 20-180% |
| | 13C2-8:2FTS | 108% 20-180% |
| | 13C3-HFPO-DA | 90% 20-150% |

Continuing Calibration Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-ICCB | 6Q19285.D | 1 | 06/13/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-2, FC6699-3

| 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: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q287-ICCB | 6Q19285.D | 1 | 06/13/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-2, FC6699-3

| 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 | 97% 20-150% |
| | 13C5-PFHxA | 91% 20-150% |
| | 13C4-PFHpA | 96% 20-150% |
| | 13C8-PFOA | 100% 20-150% |
| | 13C9-PFNA | 96% 20-150% |
| | 13C6-PFDA | 103% 20-150% |
| | 13C7-PFUnDA | 97% 20-150% |
| | 13C2-PFDoDA | 108% 20-150% |
| | 13C2-PFTeDA | 91% 20-150% |
| | 13C3-PFBS | 101% 20-150% |
| | 13C3-PFHxS | 102% 20-150% |
| | 13C8-PFOS | 100% 20-150% |
| | 13C8-FOSA | 99% 20-150% |
| | d3-MeFOSA | 91% 20-150% |
| | d5-EtFOSA | 97% 20-150% |
| | d3-MeFOSAA | 109% 20-150% |
| | d5-EtFOSAA | 97% 20-150% |
| | d7-MeFOSE | 92% 20-150% |
| | d9-EtFOSE | 82% 20-150% |
| | 13C2-4:2FTS | 108% 20-180% |
| | 13C2-6:2FTS | 117% 20-180% |
| | 13C2-8:2FTS | 105% 20-180% |
| | 13C3-HFPO-DA | 98% 20-150% |

Continuing Calibration Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-ICCB | 6Q19289.D | 1 | 06/13/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-2, FC6699-3

| 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 | |

6.1.4
6

Continuing Calibration Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-ICCB | 6Q19289.D | 1 | 06/13/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-2, FC6699-3

| 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 | 101% | 20-150% |
| | 13C5-PFPeA | 99% | 20-150% |
| | 13C5-PFHxA | 93% | 20-150% |
| | 13C4-PFHpA | 97% | 20-150% |
| | 13C8-PFOA | 96% | 20-150% |
| | 13C9-PFNA | 106% | 20-150% |
| | 13C6-PFDA | 115% | 20-150% |
| | 13C7-PFUnDA | 112% | 20-150% |
| | 13C2-PFDoDA | 103% | 20-150% |
| | 13C2-PFTeDA | 105% | 20-150% |
| | 13C3-PFBS | 97% | 20-150% |
| | 13C3-PFHxS | 97% | 20-150% |
| | 13C8-PFOS | 106% | 20-150% |
| | 13C8-FOSA | 99% | 20-150% |
| | d3-MeFOSA | 96% | 20-150% |
| | d5-EtFOSA | 95% | 20-150% |
| | d3-MeFOSAA | 98% | 20-150% |
| | d5-EtFOSAA | 98% | 20-150% |
| | d7-MeFOSE | 89% | 20-150% |
| | d9-EtFOSE | 81% | 20-150% |
| | 13C2-4:2FTS | 111% | 20-180% |
| | 13C2-6:2FTS | 107% | 20-180% |
| | 13C2-8:2FTS | 101% | 20-180% |
| | 13C3-HFPO-DA | 88% | 20-150% |

6.1.4

6

Method Blank Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97275-MB | 6Q19265.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| 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 | |

Method Blank Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-MB | 6Q19265.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| 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 | 105% 20-150% |
| | 13C5-PFPeA | 101% 20-150% |
| | 13C5-PFHxA | 99% 20-150% |
| | 13C4-PFHpA | 98% 20-150% |
| | 13C8-PFOA | 103% 20-150% |
| | 13C9-PFNA | 116% 20-150% |
| | 13C6-PFDA | 107% 20-150% |
| | 13C7-PFUnDA | 101% 20-150% |
| | 13C2-PFDoDA | 99% 20-150% |
| | 13C2-PFTeDA | 86% 20-150% |
| | 13C3-PFBS | 97% 20-150% |
| | 13C3-PFHxS | 97% 20-150% |
| | 13C8-PFOS | 101% 20-150% |
| | 13C8-FOSA | 76% 20-150% |
| | d3-MeFOSA | 72% 20-150% |
| | d5-EtFOSA | 81% 20-150% |
| | d3-MeFOSAA | 104% 20-150% |
| | d5-EtFOSAA | 92% 20-150% |
| | d7-MeFOSE | 58% 20-150% |
| | d9-EtFOSE | 68% 20-150% |
| | 13C2-4:2FTS | 119% 20-180% |
| | 13C2-6:2FTS | 119% 20-180% |
| | 13C2-8:2FTS | 99% 20-180% |
| | 13C3-HFPO-DA | 95% 20-150% |

6.1.5
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Continuing Calibration Blank

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q287-ICCB | 6Q19262.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97275-BS, OP97275-LLBS, OP97275-MB, OP97275-MS

| 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: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q287-ICCB | 6Q19262.D | 1 | 06/12/23 | MV | n/a | n/a | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97275-BS, OP97275-LLBS, OP97275-MB, OP97275-MS

| 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 | 103% 20-150% |
| | 13C5-PFHxA | 98% 20-150% |
| | 13C4-PFHpA | 104% 20-150% |
| | 13C8-PFOA | 96% 20-150% |
| | 13C9-PFNA | 109% 20-150% |
| | 13C6-PFDA | 101% 20-150% |
| | 13C7-PFUnDA | 100% 20-150% |
| | 13C2-PFDoDA | 96% 20-150% |
| | 13C2-PFTeDA | 96% 20-150% |
| | 13C3-PFBS | 109% 20-150% |
| | 13C3-PFHxS | 108% 20-150% |
| | 13C8-PFOS | 104% 20-150% |
| | 13C8-FOSA | 100% 20-150% |
| | d3-MeFOSA | 96% 20-150% |
| | d5-EtFOSA | 99% 20-150% |
| | d3-MeFOSAA | 105% 20-150% |
| | d5-EtFOSAA | 101% 20-150% |
| | d7-MeFOSE | 100% 20-150% |
| | d9-EtFOSE | 86% 20-150% |
| | 13C2-4:2FTS | 128% 20-180% |
| | 13C2-6:2FTS | 124% 20-180% |
| | 13C2-8:2FTS | 112% 20-180% |
| | 13C3-HFPO-DA | 96% 20-150% |

Blank Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97275-LLBS | 6Q19264.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.03 | 0.0264 | 88 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.015 | 0.0129 | 86 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.0075 | 0.0068 | 91 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0075 | 0.0060 | 80 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.0075 | 0.0083 | 111 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.0075 | 0.0061 | 81 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.0075 | 0.0059 | 79 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0075 | 0.0071 | 95 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.0075 | 0.0063 | 84 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0075 | 0.0063 | 84 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0075 | 0.0062 | 83 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.00665 | 0.0053 | 80 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.00706 | 0.0062 | 88 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.00686 | 0.0056 | 82 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.00715 | 0.0060 | 84 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.00696 | 0.0060 | 86 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.00722 | 0.0059 | 82 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.00724 | 0.0057 | 79 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.00728 | 0.0056 | 77 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0281 | 0.0242 | 86 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0285 | 0.0263 | 92 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0288 | 0.0235 | 82 | 40-150 |
| 754-91-6 | PFOSA | 0.0075 | 0.0063 | 84 | 40-150 |
| 31506-32-8 | MeFOSA | 0.015 | 0.0134 | 89 | 40-150 |
| 4151-50-2 | EtFOSA | 0.015 | 0.0131 | 87 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.0075 | 0.0067 | 89 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.0075 | 0.0065 | 87 | 40-150 |
| 24448-09-7 | MeFOSE | 0.0375 | 0.0329 | 88 | 40-150 |
| 1691-99-2 | EtFOSE | 0.0375 | 0.0315 | 84 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.015 | 0.0120 | 80 | 40-150 |
| 919005-14-4 | ADONA | 0.0142 | 0.0119 | 84 | 40-150 |
| 377-73-1 | PFMPA | 0.015 | 0.0127 | 85 | 40-150 |
| 863090-89-5 | PFMBA | 0.015 | 0.0126 | 84 | 40-150 |
| 151772-58-6 | NFDHA | 0.015 | 0.0134 | 89 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.014 | 0.0111 | 79 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0142 | 0.0115 | 81 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-LLBS | 6Q19264.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0134 | 0.0131 | 98 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.0375 | 0.0246 | 66 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.188 | 0.171 | 91 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.188 | 0.170 | 91 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 115% | 20-150% |
| | 13C5-PFPeA | 113% | 20-150% |
| | 13C5-PFHxA | 107% | 20-150% |
| | 13C4-PFHpA | 114% | 20-150% |
| | 13C8-PFOA | 122% | 20-150% |
| | 13C9-PFNA | 116% | 20-150% |
| | 13C6-PFDA | 130% | 20-150% |
| | 13C7-PFUnDA | 114% | 20-150% |
| | 13C2-PFDoDA | 115% | 20-150% |
| | 13C2-PFTeDA | 106% | 20-150% |
| | 13C3-PFBS | 113% | 20-150% |
| | 13C3-PFHxS | 109% | 20-150% |
| | 13C8-PFOS | 120% | 20-150% |
| | 13C8-FOSA | 92% | 20-150% |
| | d3-MeFOSA | 81% | 20-150% |
| | d5-EtFOSA | 87% | 20-150% |
| | d3-MeFOSAA | 114% | 20-150% |
| | d5-EtFOSAA | 117% | 20-150% |
| | d7-MeFOSE | 68% | 20-150% |
| | d9-EtFOSE | 78% | 20-150% |
| | 13C2-4:2FTS | 131% | 20-180% |
| | 13C2-6:2FTS | 125% | 20-180% |
| | 13C2-8:2FTS | 114% | 20-180% |
| | 13C3-HFPO-DA | 116% | 20-150% |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97275-BS | 6Q19263.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.1 | 0.0892 | 89 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.05 | 0.0448 | 90 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.025 | 0.0239 | 96 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.025 | 0.0212 | 85 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.025 | 0.0256 | 102 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.025 | 0.0214 | 86 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.025 | 0.0188 | 75 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.025 | 0.0216 | 86 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.025 | 0.0243 | 97 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.025 | 0.0222 | 89 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.025 | 0.0226 | 90 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0222 | 0.0204 | 92 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0235 | 0.0209 | 89 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0229 | 0.0192 | 84 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0238 | 0.0205 | 86 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0232 | 0.0209 | 90 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0241 | 0.0211 | 88 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0241 | 0.0226 | 94 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0243 | 0.0193 | 80 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0938 | 0.0859 | 92 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.095 | 0.0985 | 104 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.096 | 0.0865 | 90 | 40-150 |
| 754-91-6 | PFOSA | 0.025 | 0.0216 | 86 | 40-150 |
| 31506-32-8 | MeFOSA | 0.05 | 0.0459 | 92 | 40-150 |
| 4151-50-2 | EtFOSA | 0.05 | 0.0462 | 92 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.025 | 0.0241 | 96 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.025 | 0.0218 | 87 | 40-150 |
| 24448-09-7 | MeFOSE | 0.125 | 0.108 | 86 | 40-150 |
| 1691-99-2 | EtFOSE | 0.125 | 0.103 | 82 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.05 | 0.0418 | 84 | 40-150 |
| 919005-14-4 | ADONA | 0.0473 | 0.0411 | 87 | 40-150 |
| 377-73-1 | PFMPA | 0.05 | 0.0243 | 49 | 40-150 |
| 863090-89-5 | PFMBA | 0.05 | 0.0463 | 93 | 40-150 |
| 151772-58-6 | NFDHA | 0.05 | 0.0437 | 87 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0468 | 0.0400 | 86 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0473 | 0.0387 | 82 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-BS | 6Q19263.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0445 | 0.0450 | 101 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.125 | 0.0476 | 38* | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.625 | 0.595 | 95 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.625 | 0.562 | 90 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 30% | 20-150% |
| | 13C5-PFPeA | 102% | 20-150% |
| | 13C5-PFHxA | 99% | 20-150% |
| | 13C4-PFHpA | 108% | 20-150% |
| | 13C8-PFOA | 97% | 20-150% |
| | 13C9-PFNA | 106% | 20-150% |
| | 13C6-PFDA | 127% | 20-150% |
| | 13C7-PFUnDA | 112% | 20-150% |
| | 13C2-PFDoDA | 106% | 20-150% |
| | 13C2-PFTeDA | 98% | 20-150% |
| | 13C3-PFBS | 116% | 20-150% |
| | 13C3-PFHxS | 117% | 20-150% |
| | 13C8-PFOS | 108% | 20-150% |
| | 13C8-FOSA | 86% | 20-150% |
| | d3-MeFOSA | 82% | 20-150% |
| | d5-EtFOSA | 81% | 20-150% |
| | d3-MeFOSAA | 109% | 20-150% |
| | d5-EtFOSAA | 105% | 20-150% |
| | d7-MeFOSE | 64% | 20-150% |
| | d9-EtFOSE | 73% | 20-150% |
| | 13C2-4:2FTS | 135% | 20-180% |
| | 13C2-6:2FTS | 119% | 20-180% |
| | 13C2-8:2FTS | 120% | 20-180% |
| | 13C3-HFPO-DA | 108% | 20-150% |

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-MS | 6Q19269.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |
| FC6649-1 | 6Q19268.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | FC6649-1 ug/l | Spike Q | MS ug/l | MS % | Limits | |
|----------------|-------------------------------|------------------|------------|------------|---------|--------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.015 U | | 0.0909 | 0.0740 | 81 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0074 U | | 0.0455 | 0.0392 | 86 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.0037 U | | 0.0227 | 0.0190 | 84 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0037 U | | 0.0227 | 0.0195 | 86 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.0037 U | | 0.0227 | 0.0212 | 93 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.0037 U | | 0.0227 | 0.0188 | 83 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.0037 U | | 0.0227 | 0.0184 | 81 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0037 U | | 0.0227 | 0.0215 | 95 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.0037 U | | 0.0227 | 0.0198 | 87 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0037 U | | 0.0227 | 0.0181 | 80 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0037 U | | 0.0227 | 0.0200 | 88 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0037 U | | 0.0202 | 0.0173 | 86 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0046 U | | 0.0214 | 0.0196 | 92 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0037 U | | 0.0208 | 0.0188 | 91 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0037 U | | 0.0217 | 0.0191 | 88 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0037 U | | 0.0211 | 0.0191 | 91 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0037 U | | 0.0219 | 0.0193 | 88 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0037 U | | 0.0219 | 0.0167 | 76 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0046 U | | 0.022 | 0.0104 | 47 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.019 U | | 0.0852 | 0.0702 | 82 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0038 J | | 0.0864 | 0.0856 | 95 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.019 U | | 0.0873 | 0.0697 | 80 | 40-150 |
| 754-91-6 | PFOSA | 0.0037 U | | 0.0227 | 0.0202 | 89 | 40-150 |
| 31506-32-8 | MeFOSA | 0.0074 U | | 0.0455 | 0.0391 | 86 | 40-150 |
| 4151-50-2 | EtFOSA | 0.0074 U | | 0.0455 | 0.0395 | 87 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.0046 U | | 0.0227 | 0.0223 | 98 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.0046 U | | 0.0227 | 0.0197 | 87 | 40-150 |
| 24448-09-7 | MeFOSE | 0.037 U | | 0.114 | 0.103 | 91 | 40-150 |
| 1691-99-2 | EtFOSE | 0.037 U | | 0.114 | 0.101 | 89 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.0037 U | | 0.0455 | 0.0367 | 81 | 40-150 |
| 919005-14-4 | ADONA | 0.0074 U | | 0.043 | 0.0446 | 104 | 40-150 |
| 377-73-1 | PFMPA | 0.0074 U | | 0.0455 | 0.0106 | 23* | 40-150 |
| 863090-89-5 | PFMBA | 0.0074 U | | 0.0455 | 0.0645 | 142 | 40-150 |
| 151772-58-6 | NFDHA | 0.0074 U | | 0.0455 | 0.0342 | 75 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0074 U | | 0.0425 | 0.0448 | 105 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0074 U | | 0.043 | 0.0363 | 85 | 40-150 |

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-MS | 6Q19269.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |
| FC6649-1 | 6Q19268.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | FC6649-1 ug/l | Spike Q | MS ug/l | MS % | Limits |
|----------------|-------------------------------|------------------|------------|------------|---------|--------|
| 113507-82-7 | PFEESA | 0.0074 U | 0.0405 | 0.0396 | 98 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.019 U | 0.114 | 0.0230 | 20* | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.093 U | 0.568 | 0.513 | 90 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.093 U | 0.568 | 0.655 | 115 | 40-150 |

| CAS No. | ID Standard Recoveries | MS | FC6649-1 | Limits |
|---------|------------------------|-------|----------|---------|
| | 13C4-PFBA | 4%* a | 4%* a | 20-150% |
| | 13C5-PFPeA | 26% | 25% | 20-150% |
| | 13C5-PFHxA | 98% | 95% | 20-150% |
| | 13C4-PFHpA | 107% | 105% | 20-150% |
| | 13C8-PFOA | 117% | 115% | 20-150% |
| | 13C9-PFNA | 105% | 113% | 20-150% |
| | 13C6-PFDA | 109% | 107% | 20-150% |
| | 13C7-PFUnDA | 97% | 99% | 20-150% |
| | 13C2-PFDoDA | 96% | 102% | 20-150% |
| | 13C2-PFTeDA | 70% | 74% | 20-150% |
| | 13C3-PFBS | 109% | 105% | 20-150% |
| | 13C3-PFHxS | 110% | 109% | 20-150% |
| | 13C8-PFOS | 100% | 102% | 20-150% |
| | 13C8-FOSA | 84% | 91% | 20-150% |
| | d3-MeFOSA | 85% | 87% | 20-150% |
| | d5-EtFOSA | 87% | 98% | 20-150% |
| | d3-MeFOSAA | 114% | 125% | 20-150% |
| | d5-EtFOSAA | 116% | 126% | 20-150% |
| | d7-MeFOSE | 63% | 69% | 20-150% |
| | d9-EtFOSE | 68% | 73% | 20-150% |
| | 13C2-4:2FTS | 149% | 141% | 20-180% |
| | 13C2-6:2FTS | 102% | 97% | 20-180% |
| | 13C2-8:2FTS | 114% | 113% | 20-180% |
| | 13C3-HFPO-DA | 90% | 83% | 20-150% |

(a) Outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-DUP | 6Q19275.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |
| FC6649-4 | 6Q19274.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | FC6649-4 ug/l | DUP Q | ug/l | Q | RPD | Limits |
|----------------|-------------------------------|------------------|----------|----------|----|-----|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.015 U | ND | | nc | | 30 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0075 U | ND | | nc | | 30 |
| 307-24-4 | Perfluorohexanoic acid | 0.0038 U | ND | | nc | | 30 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0038 U | ND | | nc | | 30 |
| 335-67-1 | Perfluorooctanoic acid | 0.0038 U | ND | | nc | | 30 |
| 375-95-1 | Perfluorononanoic acid | 0.0038 U | ND | | nc | | 30 |
| 335-76-2 | Perfluorodecanoic acid | 0.0038 U | ND | | nc | | 30 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0038 U | ND | | nc | | 30 |
| 307-55-1 | Perfluorododecanoic acid | 0.0038 U | ND | | nc | | 30 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0038 U | ND | | nc | | 30 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0038 U | ND | | nc | | 30 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0047 U | ND | | nc | | 30 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0038 U | ND | | nc | | 30 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0047 U | ND | | nc | | 30 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.019 U | ND | | nc | | 30 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0085 U | J | 0.0055 U | J | 43* | 30 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.019 U | ND | | nc | | 30 |
| 754-91-6 | PFOSA | 0.0038 U | ND | | nc | | 30 |
| 31506-32-8 | MeFOSA | 0.0075 U | ND | | nc | | 30 |
| 4151-50-2 | EtFOSA | 0.0075 U | ND | | nc | | 30 |
| 2355-31-9 | MeFOSAA | 0.0047 U | ND | | nc | | 30 |
| 2991-50-6 | EtFOSAA | 0.0047 U | ND | | nc | | 30 |
| 24448-09-7 | MeFOSE | 0.038 U | ND | | nc | | 30 |
| 1691-99-2 | EtFOSE | 0.038 U | ND | | nc | | 30 |
| 13252-13-6 | HFPO-DA (GenX) | 0.0038 U | ND | | nc | | 30 |
| 919005-14-4 | ADONA | 0.0075 U | ND | | nc | | 30 |
| 377-73-1 | PFMPA | 0.0075 U | ND | | nc | | 30 |
| 863090-89-5 | PFMBA | 0.0075 U | ND | | nc | | 30 |
| 151772-58-6 | NFDHA | 0.0075 U | ND | | nc | | 30 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0075 U | ND | | nc | | 30 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0075 U | ND | | nc | | 30 |

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC6699
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97275-DUP | 6Q19275.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |
| FC6649-4 | 6Q19274.D | 1 | 06/12/23 | MV | 06/09/23 | OP97275 | S6Q287 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6699-1, FC6699-2, FC6699-3

| CAS No. | Compound | FC6649-4 ug/l | DUP Q | ug/l | Q | RPD | Limits |
|----------------|-------------------------------|------------------|----------|------|---|-----|--------|
| 113507-82-7 | PFEESA | 0.0075 U | ND | | | nc | 30 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.019 U | ND | | | nc | 30 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.094 U | ND | | | nc | 30 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.094 U | ND | | | nc | 30 |

| CAS No. | ID Standard Recoveries | DUP | FC6649-4 | Limits |
|---------|------------------------|------|----------|---------|
| | 13C4-PFBA | 114% | 107% | 20-150% |
| | 13C5-PFPeA | 116% | 113% | 20-150% |
| | 13C5-PFHxA | 113% | 117% | 20-150% |
| | 13C4-PFHpA | 115% | 110% | 20-150% |
| | 13C8-PFOA | 110% | 116% | 20-150% |
| | 13C9-PFNA | 127% | 107% | 20-150% |
| | 13C6-PFDA | 123% | 101% | 20-150% |
| | 13C7-PFUnDA | 94% | 95% | 20-150% |
| | 13C2-PFDoDA | 94% | 88% | 20-150% |
| | 13C2-PFTeDA | 89% | 84% | 20-150% |
| | 13C3-PFBS | 119% | 118% | 20-150% |
| | 13C3-PFHxS | 109% | 114% | 20-150% |
| | 13C8-PFOS | 106% | 105% | 20-150% |
| | 13C8-FOSA | 94% | 92% | 20-150% |
| | d3-MeFOSA | 86% | 79% | 20-150% |
| | d5-EtFOSA | 97% | 80% | 20-150% |
| | d3-MeFOSAA | 107% | 102% | 20-150% |
| | d5-EtFOSAA | 110% | 97% | 20-150% |
| | d7-MeFOSE | 71% | 67% | 20-150% |
| | d9-EtFOSE | 84% | 69% | 20-150% |
| | 13C2-4:2FTS | 134% | 135% | 20-180% |
| | 13C2-6:2FTS | 130% | 127% | 20-180% |
| | 13C2-8:2FTS | 114% | 109% | 20-180% |
| | 13C3-HFPO-DA | 105% | 102% | 20-150% |

* = Outside of Control Limits.