JULY 10, 2024

REPORT OF ADDITIONAL PFAS SAMPLING RESULTS

ARKEMA COATING RESINS/COOK COMPOSITES & POLYMERS/FREEMAN CHEMICALS
340 RAILROAD STREET
SAUKVILLE, WISCONSIN
BRRTS #: 02-46-000767, FID #: 246004330

ENDPOINT PROJECT NO. 341-020-004

PREPARED FOR:

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This Report of Additional Sampling Results was prepared by Endpoint Solutions Corp. for Retia USA LLC in accordance with Wisconsin Administrative Code Chapter NR 716.

Prepared By: _____ July 10, 2024
Robert A. Cigale, P.G. — Date
Principal

Reviewed By: _____ July 10, 2024
Kirk L. Kapfhammer, P.G. — Date
Principal

Endpoint Solutions

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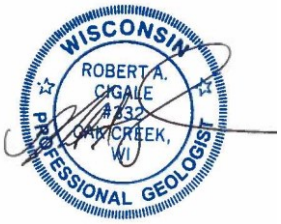
APPENDICES

CERTIFICATION

HYDROGEOLOGIST

I, Robert A. Cigale, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title	332-13 P.G. number	July 10, 2024 Date



1.0 INTRODUCTION

As a follow-up to the PFAS Site Investigation Report of Results (July 13, 2021), Endpoint Solutions Corp. (Endpoint) performed additional soil and groundwater sampling to further evaluate the presence of per- and polyfluoroalkyl substances (PFAS) contamination at the Arkema Coating Resins/Cook Composites & Polymers/Freeman Chemical facility at 340 Railroad Street in the Village of Saukville, Ozaukee County, Wisconsin (the "Site" or "subject property"). The location of the Site is depicted on **Figure 1**. The additional sampling was performed in conjunction with the Comprehensive Site Investigation outlined in the Site Investigation Work Plan (March 12, 2021) and subsequent Site Investigation Work Plan Addendum (December 3, 2021).

The additional sampling activities were performed in September 2022.

2.0 BACKGROUND

Historical documentation, including photographs taken by Endpoint prior to demolition of the Site structures indicate Universal Gold 3% alcohol resistant aqueous film forming foam (AR-AFFF) was maintained at the Site in the event of a fire. Based on discussions with Site maintenance staff, two (2) warehouses (former Buildings 32 and 34) and the hazardous liquids incinerator (former Building 69) were equipped with built-in AR-AFFF systems. In addition, a mobile extinguishing cart containing AR-AFFF was stored on the west side of former Building 59 for use within the Production Block of buildings located primarily in the southwest portion of the Site. None of the Production Block buildings contained built-in AR-AFFF fire suppression systems. The known AR-AFFF locations discussed above are depicted on **Figure 2**.

According to the Safety Data Sheet (SDS) for Universal Gold 3% provided by National Foam (May 18, 2021, revision), this product contained fluoroalkyl surfactants, including PFAS; however, a specification sheet for Universal Gold states, "National Foam Concentrates do not contain PFOS in accordance with USEPA Stewardship Program 2010/2015". As we assume the use of Universal Gold AR-AFFF at the Site predates the USEPA Stewardship Program 2010/2015, we cannot confirm whether the product stored at the Site did or did not contain PFOS. Both the SDS and the Specification Sheet are attached in **Appendix A** for reference.

3.0 HISTORIC RESULTS

3.1 NOVEMBER 2020 SAMPLING EVENT

In November 2020, eight (8) soil borings were advanced and five (5) permanent groundwater monitoring wells were sampled for the presence of PFAS constituents. The soil sample locations are depicted on **Figure 3** and the groundwater sample locations are depicted on **Figure 4**. Select soil and groundwater samples were submitted for laboratory PFAS analyses.

3.1.1 SOIL RESULTS

As reported in the PFAS Site Investigation Report of Results (July 13, 2021), concentrations of PFAS constituents were detected in each of the soil investigation samples submitted in 2020. Of the 37 PFAS constituents analyzed for, only 13 PFAS constituents were detected at concentrations above their method detection limits (MDLs). The results of 30 of the 34 reported detections were reported as estimated between the reporting limit (RL) but greater than the MDL; as such these results were qualified with a "J" flag. Furthermore, one (1) result was reported as the estimated maximum possible concentration (EMPC) and was qualified with an "I" flag. Of the 13 PFAS constituents detected above the MDL in the soil samples, only the concentrations of perfluorohexanesulfonic acid (PFHxS) in the samples collected from the PFAS-1 and PFAS-2 sample locations, and perfluoroheptanesulfonic acid (PFHpS) at the PFAS-1 sample location exceeded their respective RLs.

While perfluorooctanesulfonic acid (PFOS) was detected in six (6) of the eight (8) soil samples submitted for analysis in 2020 and perfluorooctanoic acid (PFOA) was detected in two (2) of the eight (8) soil samples submitted for analysis in 2020, the concentrations of PFOS or PFOA detected in the soil samples were four (4) to five (5) orders of magnitude below the non-industrial direct contact RCLs. The results of the soil analyses are summarized on **Table A.2.a**.

3.1.2 GROUNDWATER RESULTS

Four (4) monitoring wells screened in the glacial drift (W-44, W-45, W-49 and W-08R) and one (1) monitoring well screened in the shallow dolomite (W-50) were properly purged prior to collecting groundwater samples for PFAS analysis using the modified EPA Method 537. All five (5) of the groundwater samples submitted contained concentrations of at least one (1) PFAS constituent above laboratory RLs. In total, 18 of the 37 PFAS constituents were detected in the groundwater samples collected from the Site. A summary of the groundwater PFAS sampling results is provided below.

- The groundwater sample collected from glacial drift monitoring well W-08R contained a Wisconsin Administrative Code (WAC) Chater NR 140 preventive action limit (PAL) exceedance for perfluorooctanesulfonamide (FOSA).
- The groundwater sample collected from glacial drift monitoring well W-44 contained a combined WAC Chapter NR 140 enforcement standard (ES) exceedance for PFOA, PFOS and n-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA), and a PAL exceedance for PFHxS.

- The groundwater sample collected from glacial drift monitoring well W-45 contained a combined ES exceedance for PFOA and PFOS, and an ES exceedance for PFHxS.
- The groundwater sample collected from glacial drift monitoring well W-49 contained a combined ES exceedance for PFOA and PFOS, and PAL exceedances for perfluorononanoic acid (PFNA) and PFHxS.
- The groundwater sample collected from shallow dolomite piezometer W-50 contained a combined ES exceedance for PFOA and PFOS, and PAL exceedances for PFNA and PFHxS.
- Groundwater samples collected from W-45 and W-49 contained concentrations of total PFOA plus PFOS which exceed the USEPA Health Advisory Level of 70 nanograms per liter (ng/L).

Hazard index (HI) calculations were performed per the methodology discussed in DHS Cycle 11 (November 17, 2020). The calculated HI ranged from 0.31 for the sample collected from glacial drift monitoring well W-08R, located at the furthest downgradient point on the east side of the Site to 18.797 for the sample collected from glacial drift monitoring well W-45, located adjacent to the northeast corner of the former Building 45 in the east-central portion of the Site. The results of the groundwater analyses are summarized on **Table A.1.a**.

3.2 APRIL 2022 GROUNDWATER SAMPLING EVENT

As a follow-up to the November 2021 Groundwater Sampling Event, a second set of groundwater samples were collected from the four (4) monitoring wells screened in the glacial drift (W-44, W-45, W-49 and W-08R) and one (1) monitoring well screened in the shallow dolomite (W-50). As the sampling performed in November 2021 involved purging approximately four (4) casing volumes with dedicated bailers prior to sampling, it was decided to repeat the sampling program; however, using low flow purging and sampling techniques.

The results of the groundwater sample analyses performed in April 2022 were comparable to the results reported following the initial sampling event performed in November 2021, and summarized as follows.

- The groundwater sample collected from glacial drift monitoring well W-08R did not contain any PAL exceedances for any PFAS constituents.
- The groundwater sample collected from glacial drift monitoring well W-44 contained a combined ES exceedance for PFOA and PFOS, and a USEPA Health Advisory Level exceedance for PFOS.
- The groundwater sample collected from glacial drift monitoring well W-45 contained a combined ES exceedance for PFOA and PFOS, and a USEPA Health Advisory Level exceedance for PFOS.
- The groundwater sample collected glacial drift monitoring well W-49 contained a combined ES exceedance for PFOA and PFOS, and a USEPA Health Advisory Level exceedance for PFOA.

- The groundwater sample collected from shallow dolomite piezometer W-50 contained a combined ES exceedance for PFOA and PFOS.

The calculated HI ranged from 0.00 for the sample collected from glacial drift monitoring well W-08R to 21.475 for the sample collected from glacial drift monitoring well W-45. The results of the groundwater analyses are summarized on **Table A.1.a**.

4.0 SCOPE OF WORK

In conjunction with the Comprehensive Site Investigation scope of work, additional soil sampling for PFAS constituents were also performed.

4.1 SOIL SAMPLING

Additional soil samples were collected and submitted for PFAS analysis during the Comprehensive Site Investigation activities performed in September 2022. An additional four (4) soil samples were collected from the following locations.

- Soil boring B-6 advanced within Area of Concern (AOC) No. 1 in the northern portion of the Site from the two (2) to four (4) feet below the ground surface (ft bgs) interval.
- Soil boring B-33 advanced through the concrete slab-on-grade within the footprint of the former warehouse (Building No. 34) from the zero (0) to two (2) ft bgs interval.
- Soil boring B-45 advanced through the concrete slab-on-grade within the footprint of the former warehouse (Building No. 32) from the six (6) to eight (8) ft bgs interval.
- Soil boring B-109 advanced through the asphalt pavement to the south of former Building 38 from the three (3) to four (4) ft bgs interval.

The locations of the additional soil borings are depicted on **Figure 5**.

In addition to the investigative samples, an equipment blank created by pouring laboratory-provided PFAS-free water through the polyethylene soil sampling liner (EB-Liner) was submitted for quality assurance/quality control (QA/QC) purposes.

4.2 GROUNDWATER SAMPLING

Groundwater samples were collected and submitted for PFAS analysis from the following locations in September 2022. Low flow purging and sampling techniques were employed.

Temporary groundwater monitoring wells were installed within the glacial drift aquifer during the Comprehensive Site Investigation activities. The temporary monitoring wells consisted of a five (5) foot section of one (1) inch diameter SCH 40 PVC screen containing filter sand within a stainless-steel pre-pack mesh. The following soil boring locations were converted to temporary groundwater monitoring wells:

- TW-06 installed at the aforementioned boring B-6 location within AOC 1.
- TW-30 installed at the boring B-30 location through the concrete slab-on-grade within the footprint of the former hazardous liquids incinerator (Building 69) in AOC 3.
- TW-33 installed at the aforementioned boring B-33 location within the footprint of the former warehouse (Building No. 34).
- TW-36 installed at the B-36 location through the concrete slab-on-grade within the footprint of the former thinning room (Building 6) in the production block portion of AOC 2.

- TW-40 installed at the boring B-40 location along the west fence line of the Site within AOC 2.
- TW-43 installed at the boring B-43 location through the concrete slab-on-grade within the footprint of the former thinning room (Building 18) in the production block portion of AOC 2.
- TW-45 installed at the aforementioned boring B-45 location within the footprint of the former warehouse (Building No. 32).
- TW-47 installed at the boring B-47 location through the concrete slab-on-grade within the footprint of the former pilot area (Building 19) in the production block portion of AOC 2.
- TW-109 installed at the aforementioned B-109 location to the south of former Building 38.

In addition, groundwater samples were collected from the following permanent glacial drift monitoring wells:

- W-01A located in the northeast corner of the Site.
- W-41 located in the southwest corner of the Site.
- W-42 located in the east-central portion of the Site.

The locations of the groundwater samples collected in September 2022 are depicted on **Figure 6**.

In addition to the investigative samples, a blind duplicate (DUP 1) of the sample collected from permanent monitoring well W-41, as well as an equipment blank created by pouring laboratory-provided PFAS-free water through the pre-packed well screen (EB-Prepack) were submitted for QA/QC purposes.

All samples were transferred to Eurofins-Test America under standard chain-of-custody conditions for analyses.

5.0 RESULTS

5.1 SOIL RESULTS

No PFAS constituents were detected in the soil sample submitted from the two (2) to four (4) ft bgs interval at the boring B-6 location within AOC 1 or within the equipment blank created by pouring laboratory-provided PFAS-free water through the polyethylene soil sampling liner (EB-Liner) submitted with the investigation samples.

The soil sample submitted from the zero (0) to two (2) ft bgs interval from the B-33 location within the footprint of the former warehouse (Building No. 34) contained a single detection of PFOS (0.069 micrograms per kilogram [µg/kg]); however, the reported concentration was qualified with a "J" flag indicating an estimated result between the MDL and the RL. Note, the reported estimated result is approximately six (6) orders of magnitude less than the established non-industrial direct contact RCL.

The soil sample submitted from the six (6) to eight (8) ft bgs interval from the B-45 location within the footprint of the former warehouse (Building No. 32) contained detected concentrations of perfluorohexanoic acid (PFHxA) (0.048 µg/kg) and FOSA (0.076 µg/kg). Both results were qualified with "J" flags indicating estimated results between the MDLs and the RLs. There are no established RCLs for PFHxA or FOSA.

The soil sample submitted from the three (3) to four (4) ft bgs interval from the B-109 location to the south of former Building 38 contained detected concentrations of perfluoropentanoic acid (PFPeA) (0.13 µg/kg), PFHxA (0.094 µg/kg), perfluoroheptanoic acid (PFHpA) (0.18 µg/kg), PFOA (0.078 µg/kg) and PFOS (0.079 µg/kg). All of the results were qualified with "J" flags indicating estimated results between the MDLs and the RLs. The reported results of PFOA and PFOS are approximately six (6) orders of magnitude less than their respective established non-industrial direct contact RCLs. There are no established RCLs for PFPeA, PFHxA or PFHpA.

The soil analytical results have been summarized in **Tables A.2.a** and **A.2.b**. The total perfluoroalkyl carboxylates (PFCAs) and total perfluoroalkyl sulfonates (PFSAs) in each of the soil samples are depicted on **Figure 5**. A copy of the analytical results and chain-of-custody form are attached in **Appendix A**.

5.2 GROUNDWATER

All of the groundwater samples submitted for analysis contained detected concentrations of at least one (1) PFAS constituent. Results of the sampling are summarized below.

- The groundwater sample submitted from permanent monitoring well W-01A contained detected concentrations of perfluorobutanesulfonic acid (PFBS) and FOSA. Both of the results were qualified with "J" flags indicating estimated results between the MDLs and the RLs. Neither of the results exceeded their respective proposed PALs or ESs. The HI was calculated to be 0.055.

- The groundwater sample submitted from permanent monitoring well W-41 contained detected concentrations of perfluorobutanoic acid (PFBA), PFPeA, PFHxA, PFHpA, PFOA, PFNA, perfluorodecanoic acid (PFDA), PFBS, PFHxS, PFHpS and PFOS. The results reported for PFPeA, PFHpA, PFNA, PFDA, PFBS, PFHxS and PFHpS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOA (5.2 ng/L) and PFOS (14 ng/L) exceeded their respective proposed WDNR PALs. The HI was calculated to be 1.037.

- The groundwater sample submitted from permanent monitoring well W-42 contained detected concentrations of PFHxA, PFHpA, PFOA, PFNA, PFBS, perfluoropentanesulfonic acid (PFPeS), PFHxS and PFOS. The results reported for PFNA, PFDA, PFBS and PFPeS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOA (10 ng/L) and PFOS (2.0 ng/L) exceeded their respective proposed WDNR PALs. The HI was calculated to be 0.722.

- The groundwater sample submitted from temporary monitoring well TW-06 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFBS, PFPeS, PFHxS, PFHpS, PFOS, 6:2 FTS and 8:2 FTS. The results reported for PFDA and PFHpS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOA (19 ng/L) and PFNA (3.5 ng/L) exceeded their respective proposed WDNR PALs, while the concentration of PFOS (24 ng/L) exceeds its proposed WDNR ES. The HI was calculated to be 2.999.

- The groundwater sample submitted from temporary monitoring well TW-30 contained detected concentrations of PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFBS, PFPeS, PFHxS, PFHpS, PFOS and 6:2 FTS. The results reported for PFNA and 6:2 FTS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOA (24 ng/L) and PFOS (100 ng/L) exceeded their respective proposed WDNR ESs. The concentration of PFOS also exceeded its USEPA Health Advisory Level. The HI was calculated to be 9.983.

- The groundwater sample submitted from temporary monitoring well TW-33 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFBS, PFPeS, PFHxS and PFOS. The result reported for PFNA was qualified with a "J" flag indicating an estimated result between the MDL and the RL. The concentration of PFOS (2.5 ng/L), PFHxS (19 ng/L) and PFOA (12 ng/L) exceeded their respective proposed WDNR PALs. The HI was calculated to be 1.223.

- The groundwater sample submitted from temporary monitoring well TW-36 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFPeS, PFHxS and PFOS. The results reported for PFBA, PFPeA, PFHxA and PFPeS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOS (12 ng/L) and PFHxS (18 ng/L) exceeded their respective proposed WDNR PALs, while the concentration of PFOA (120 ng/L) exceeds its proposed WDNR ES and USEPA Health Advisory Level. The HI was calculated to be 7.051.

- The groundwater sample submitted from temporary monitoring well TW-40 contained detected concentrations of PFHxA, PFHpA, PFOA, PFNA, PFPeS, PFHxS and PFOS. The result reported for PFNA was qualified with a "J" flag indicating an estimated result between the MDL and the RL. The concentration of PFOS (7.0 ng/L) exceeded its proposed WDNR PAL. The concentrations of PFOA (24 ng/L) and PFHxS (110 ng/L) exceed their respective WDNR proposed ESs. The HI was calculated to be 4.324.

- The groundwater sample submitted from temporary monitoring well TW-43 contained detected concentrations of PFHxA, PFHpA, PFOA, PFBS, PFPeS, PFHxS and PFOS. The results reported for PFHpA, PFBS and PFPeS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFOA (24 ng/L), PFOS (29 and PFHxS (100 ng/L) exceeded their respective WDNR proposed ESs. The HI was calculated to be 6.100.

- The groundwater sample submitted from temporary monitoring well TW-45 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFPeS, PFHxS, PFOS and 6:2 FTS. The results reported for PFPeS, PFOS and 6:2 FTS were qualified with "J" flags indicating estimated results between their respective MDLs and the RLs. The concentration of PFHxS (11 ng/L) exceeded its proposed WDNR PAL, while the concentration of PFOA (42 ng/L) exceeded its WDNR proposed ES. The HI was calculated to be 2.449.

- The groundwater sample submitted from temporary monitoring well TW-47 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFBS, PFPeS, PFHxS and PFOS. The result reported for PFNA was qualified with a "J" flag indicating an estimated result between its MDL and the RL. The concentrations of PFOS (17 ng/L) and PFHxS (37 ng/L) exceeded their respective proposed WDNR PALs, while the concentration of PFOA (68 ng/L) exceeded its WDNR proposed ES. The HI was calculated to be 5.198.

- The groundwater sample submitted from temporary monitoring well TW-109 contained detected concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFHxS, 4:2 FTS and 6:2 FTS. The result reported for 4:2 FTS was qualified with a "J" flag indicating an estimated result between its MDL and the RL. The concentration of PFOA (36 ng/L) exceeded its WDNR proposed ES. The HI was calculated to be 1.869.

- No PFAS constituents were detected in the equipment blank sample created by pouring laboratory-provided PFAS-free water through the prepacked well screen (EB-Prepack).

- The results of the blind duplicate (DUP 1) were comparable to the results of the parent sample (W-41-22-S1).

The groundwater analytical results have been summarized in **Table A.1**. The total PFAS results in the groundwater with approximate isoconcentration lines are depicted on **Figure 6**. A copy of the analytical results and chain-of-custody form are attached in **Appendix A**.

6.0 DISCUSSION OF RESULTS

6.1 SOILS

PFAS constituents detected in the soil samples collected from the Site primarily contained detections of perfluoroalkyl carboxylates (PFCAs) detected in ten (10) of the 12 soil samples submitted, perfluoroalkyl sulfonates (PFSAs) detected in nine (9) of the12 soil samples submitted, potential PFSA precursor NetFOSE in two (2) of the 12 samples submitted, potential PFSA precursor FOSA in one (1) of the 12 samples submitted and potential PFCA precursor fluorotelomer 6:2 in one (1) of the 12 samples submitted. PFCAs and PFSAs are both surfactants which were used in the manufacturing of AR-AFFF.

According to the Interstate Technology & Regulatory Council (ITRC), legacy AFFFs consisted of PFOS AFFF manufactured between the 1960s and 2002 by 3M and marketed as "Lightwater" and fluorotelomer AFFF manufactured between the 1970s and 2016 by all other manufacturers except 3M. Lightwater AFFF contained PFOS and various precursors which can breakdown to PFOS and shorter-chain PFSAs, such as PFHxS. Older formulations also contained PFOA and various precursors which can breakdown to PFOA and PFCAs.

Legacy fluorotelomer AFFF were not manufactured with PFOA, but contained precursors which could breakdown to PFOA and PFCAs. The fluorotelomer AFFF typically contained predominantly short-chain (C6) PFAS. The long-chain portions of the fluorotelomer foams have the potential to breakdown to PFOA and PFCAs, but not to PFOS or PFSAs.

Of the 12 soil samples submitted for PFAS analyses in 2020 and 2022, two (2) samples (B-6 and B-33) did not contain any detectable PFCAs and four (4) samples (B-6, B-45, PFAS-5 and PFAS-8) did not contain any detectable PFSAs. Of the remaining soil samples which contained at least one 91) detected PFCA and at least one (1) PFSA, two (2) samples B-109 and PFAS-7) exhibited higher concentrations of PFCAs as compared to PFSAs, and four (4) samples (PFAS-1, PFAS-2, PFAS-3 and PFAS-4) contained higher concentrations of PFSAs than compared to PFCAs. The sample submitted from PFAS-6 contained similar concentrations of PFCAs and PFSAs.

Overall, PFOS was detected in more samples (eight [8] of 12), and at higher concentrations (2.6 µg/kg maximum) than PFOA (three [3] of 12 samples) with a maximum concentration of 0.13 µg/kg detected. Based on these results, it is our opinion that Universal Gold 3% may not have been the only AR-AFFF utilized at the Site. Furthermore, based on the results of the soil sampling, the areas of soil contaminated with PFAS appear to be in the vicinity of the former hazardous liquids incinerator as evidenced by sample PFAS-1, the former location of the mobile AR-AFFF cart as evidenced by sample PFAS-2 and the area in the southeast corner of the Site where a foam nozzle was reportedly demonstrated for an insurance adjuster, as evidenced by samples PFAS-4, PFAS-6, PFAS-3 and PFAS-7.

In general, the majority of PFAS detections in the soil were for PFAS compounds with less than eight (8) carbon atoms (40 of 42 detections). The only longer chain PFAS detected in the soil was NEtFOSE (12 carbons) in two (2) of the samples.

Total PFCAs and PFSAs concentrations are depicted on **Figure 5**.

6.2 GROUNDWATER

PFAS constituents detected in the groundwater samples collected at the Site consisted primarily of PFCAs, PFSAs with isolated detections of perfluoroalkane sulfonamides (FASAs), primarily perfluorooctanesulfonamide (FOSA), perfluoroalkane sulfamido acetic acids (FASAAs), primarily n-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) and fluorotelomer sulfonic acids (FTSAs), including 6:2 FTS, 8:2 FTS and 10:2 FTS. Similar to the soil results, the majority of the PFAS constituent detections in the groundwater consisted of eight (8) carbon chains and shorter.

At 11 of the 17 locations where groundwater samples were collected, the concentration of total PFCAs were significantly higher than the concentrations of total PFSAs at the same locations. Of the six (6) remaining locations where the concentration of total PFSAs exceeded the concentration of total PFCAs, two (2) of the locations (W-01A and W-08R) contained a "J" qualified concentration of a single PFSA constituent versus no detectable PFCAs. Overall, the highest concentrations of PFAS constituents consisted of PFCAs, primarily at the W-49, TW-33, TW-109, TW-45 and W-44 locations.

In general, the extent of PFCAs in the groundwater was somewhat in agreement with the extent of PFCAs detected in the soils. The highest concentrations of PFCAs in the groundwater are located in the southeast corner of the Site in agreement with the highest concentration of PFCAs in the soils within the area reportedly utilized to test the foam production of the nozzle. A secondary area of elevated PFCAs in the groundwater appears to coincide with the elevated concentration of PFCAs in the soil in the vicinity of the former hazardous liquids incinerator near the center of the Site.

While the total PFSAs concentrations in soil appear to identify three (3) distinct areas at the Site: in the area where the nozzle was reportedly tested; the former hazardous liquids incinerator; and, the former location of the mobile firefighting cart, the total PFSAs concentrations in groundwater appear to identify an area of elevated concentrations emanating from the vicinity of the former hazardous liquids incinerator.

Total PFAS concentrations in groundwater are depicted on **Figure 6**.

7.0 CONCLUSIONS AND RRECOMMENDATIONS

7.1 CONCLUSIONS

As discussed in the PFAS Site Investigation Work Plan (April 6, 2020), PFAS constituents were never utilized at the Site in the production of the polymers manufactured at the Site; however, AR-AFFF was stored in two (2) aboveground storage tanks at the Site within the engineering office associated with an automatic sprinkler system for the Building 32 warehouse, and within the hazardous liquids incinerator (Building 69) associated with an automatic sprinkler system, as well as in a mobile extinguishing cart maintained on the west side of former Building 49 for use in areas that were not covered by automatic sprinkler system (Buildings 32 and 69). These locations are depicted on **Figure 2**.

As part of our historical review the only known deployment of AFFF at the site was from a single event when a representative of the Site's insurance carrier requested a demonstration of the delivery nozzle to evaluate whether the volume of foam created would be sufficient to effectively manage a fire. Information suggests that the nozzle test was performed to the southeast of the engineering office (Building 39) and the Water Tank (Building 38) to an unpaved surface.

In general, the soil results appear to indicate elevated concentrations of PFAS constituents in the shallow soils in the vicinity of known areas of AR-AFFF storage and use on the Site. However, the results of the analyses of the soil samples do not appear to provide any consistency to identify whether multiple releases have occurred or whether the results are due to other potential non-point sources of contamination.

Based on the results of the groundwater sample analyses, it is apparent an area of higher concentrations of PFAS constituents are present in the southeast corner of the Site where the AR-AFFF nozzle was reportedly tested for the insurance carrier. While elevated concentrations of PFAS constituents were detected in the groundwater across most of the Site, it should be noted that no PFAS constituents were detected in the soil sample submitted from the SB-6 location (located in AOC-1 in the northern portion of the site); however, the groundwater sample from this location contained a total PFAS concentration of 405.85 ng/L. It is our opinion based on the lack of PFAS constituents in the soil at this location that the total PFAS concentration detected in the groundwater is likely the result of background conditions from offsite regional sources. Removing locations containing less than 400 ng/L total PFAS concentrations from the isoconcentration map further defines the area of groundwater contamination to the southeast portion of the Site which more closely coincides with the historic locations of AR-AFFF on the Site within the former Buildings 32 and 34 warehouses and the nozzle test area in the extreme southeast corner of the Site.

In addition, when comparing the concentrations of total PFAS in the glacial drift aquifer and the shallow dolomite aquifer at the W-49/W-50 well nest, it is our opinion the concentration of total PFAS in the shallow dolomite is within the aforementioned likely regional background concentration, indicating that it does not appear as though the PFAS constituents detected in the

glacial drift aquifer in the southeast corner of the Site have migrated downward into the shallow dolomite aquifer.

There are no sensitive receptors at risk due to exposure to PFAS detected in soil and shallow groundwater at the site. The residences located between the area of known contamination and the Milwaukee River are all provided with potable water provided by the Village of Saukville, which obtains its water from the deep dolomite aquifer. There are no private potable wells located between the Site and the Milwaukee River and the nearest Village downgradient potable well is located on the east side of the Milwaukee River. Finally, the data from the W-49/W-50 well nest indicated the PFAS contamination in the glacial drift aquifer is not migrating downward into the shallow dolomite aquifer; and therefore, is likely not migrating downward into the deep dolomite aquifer utilized as a source of potable water.

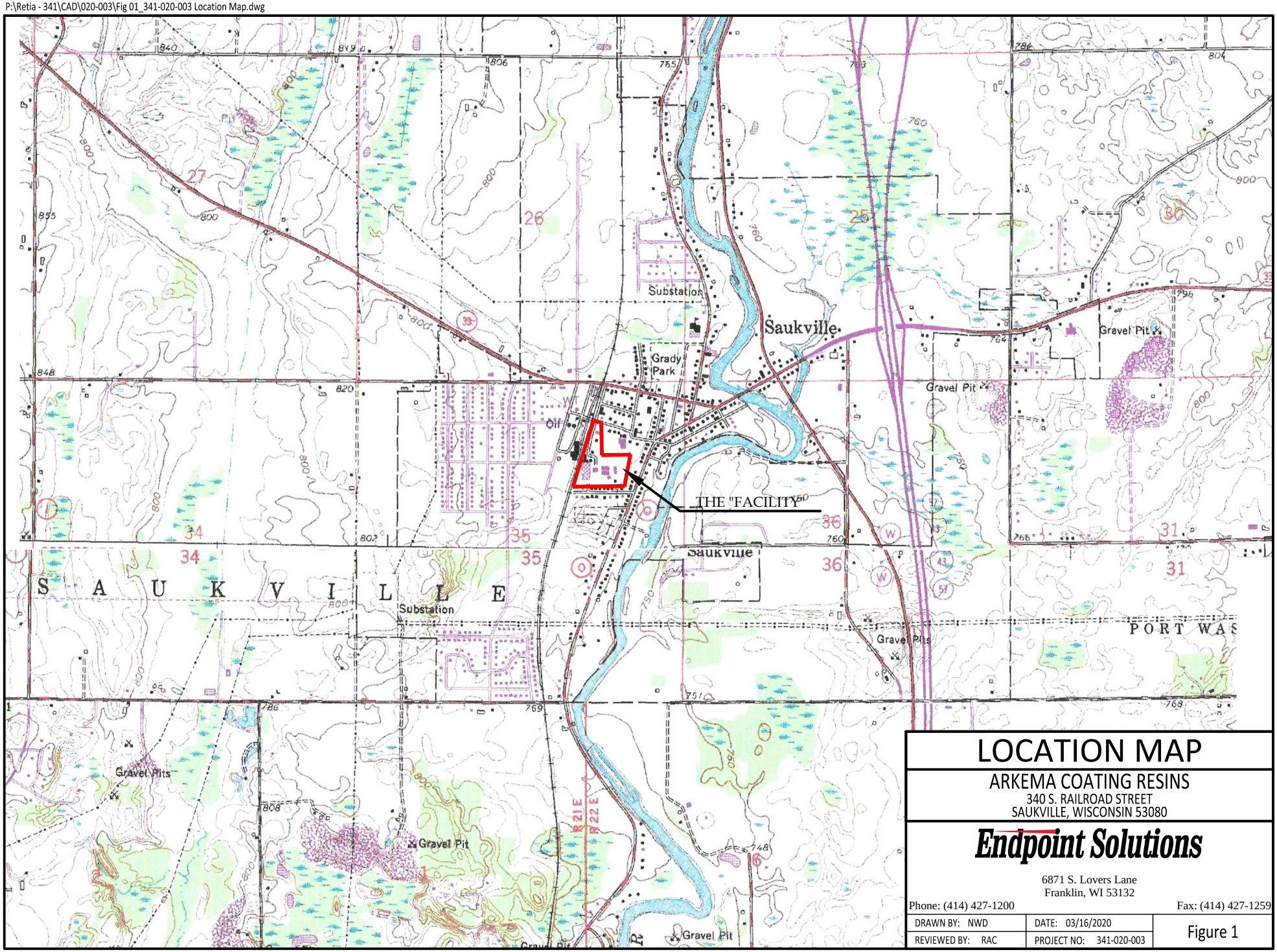
7.2 RECOMMENDATIONS

Based on the results of these sampling events and our interpretation of the results, we propose that no further investigation and/or remediation is warranted at this time for PFAS detected in groundwater at the Site. The soil and groundwater at the site are impacted by VOCs to a much greater degree than PFAS and therefore it is proposed to prioritize the VOC cleanup initiative, which will also benefit cleanup of co-located PFAS impacts, while continuing to monitor and gather additional information regarding the presence of PFAS.

PFAS will continue to be monitored periodically in a subset of wells to verify that groundwater concentrations remain stable or decreasing particularly in the southeast area of the site. In addition, linear and branched isomer reporting will be added to future sample events to provide additional information that may be helpful in distinguishing sources. These data will be used to assess the notion that the impacts observed on site may be associated with regional offsite industrial or anthropogenic sources. Results of additional PFAS analyses will be reported in the annual groundwater monitoring report.

FIGURES

P:\Retia - 341\CAD\020-003\Fig 01_341-020-003 Location Map.dwg



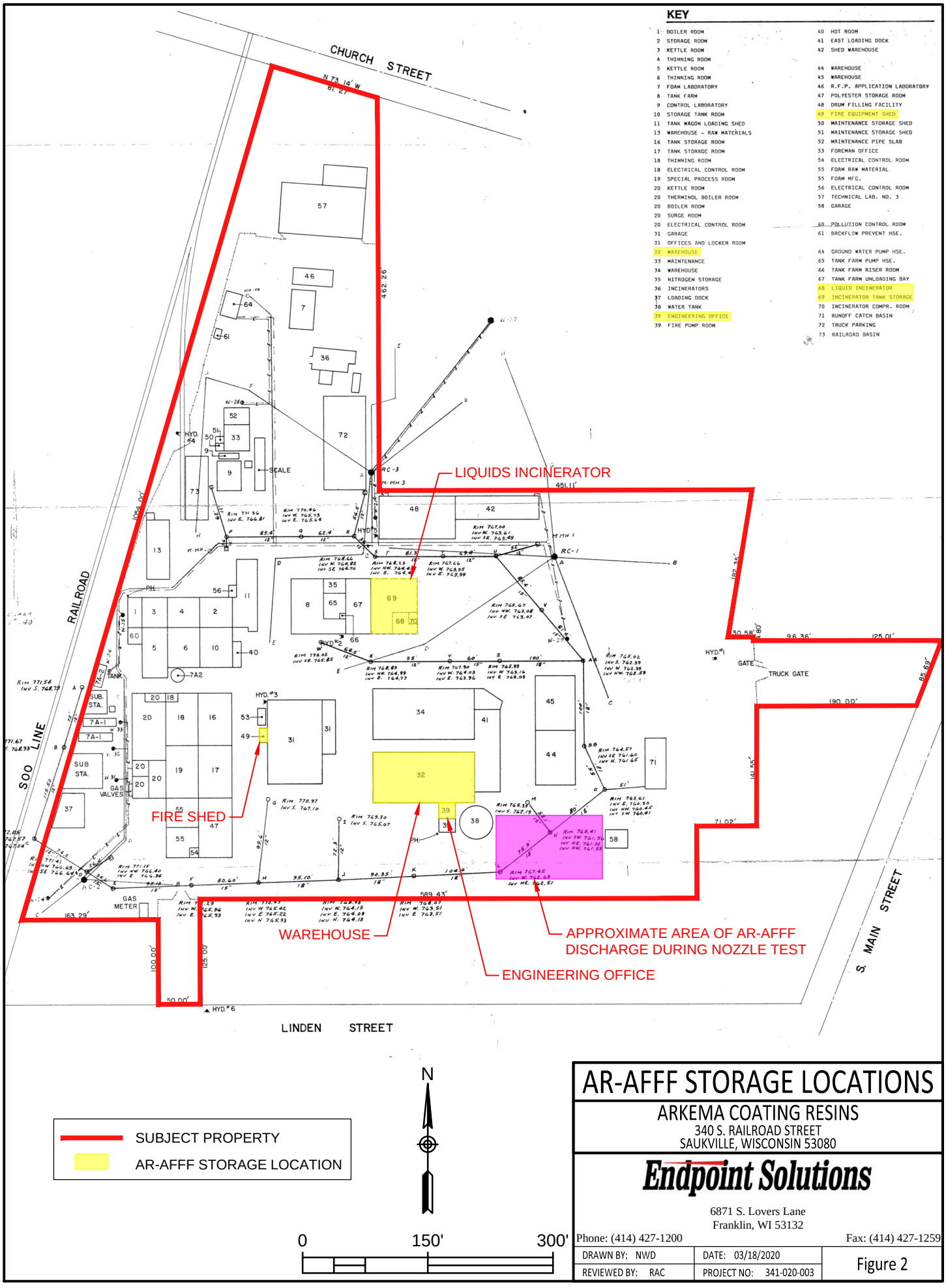
LOCATION MAP

ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions

6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD	DATE: 03/16/2020	Figure 1
REVIEWED BY: RAC	PROJECT NO: 341-020-003	



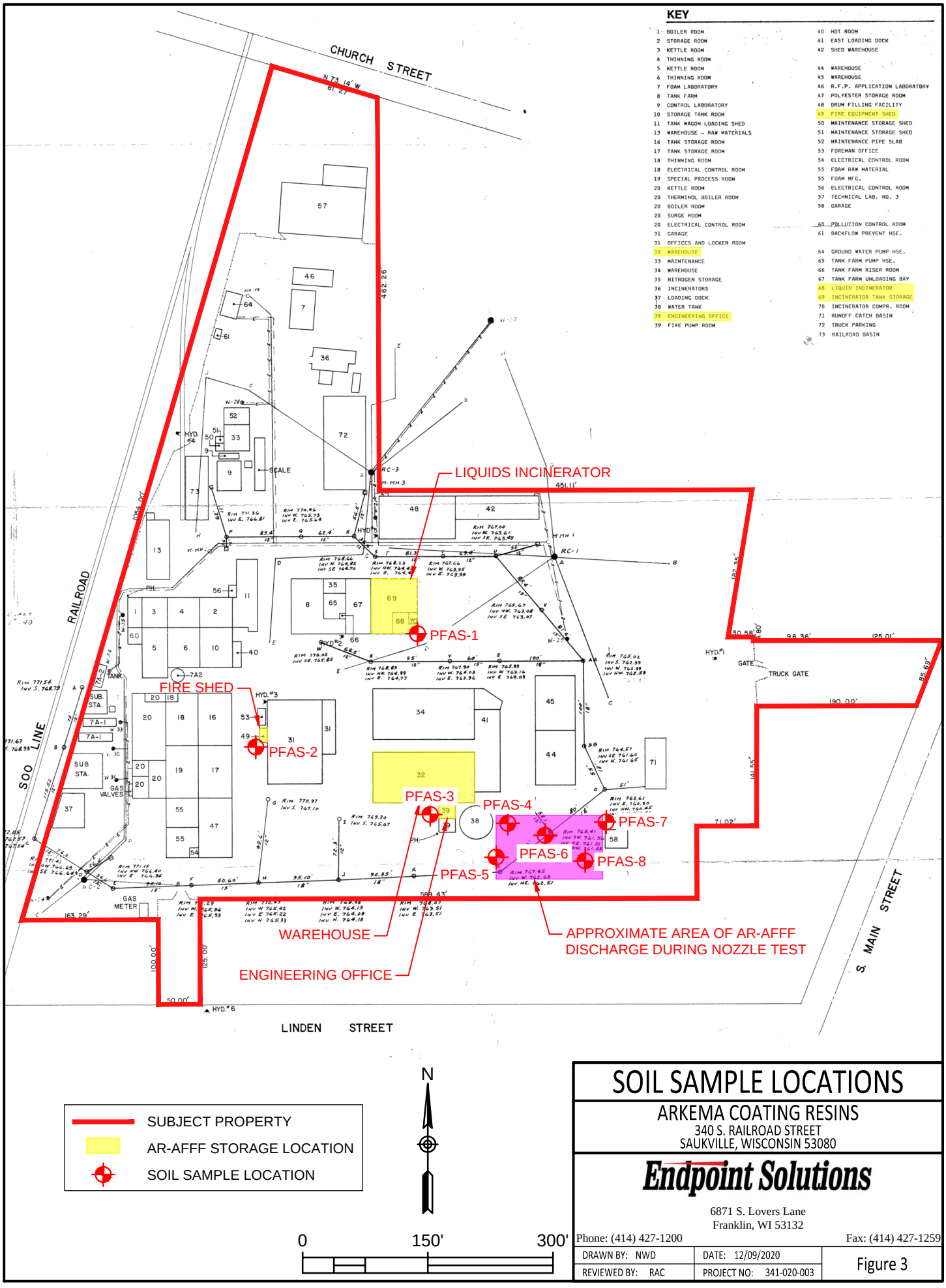
AR-AFFF STORAGE LOCATIONS

ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions
6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD	DATE: 03/18/2020	Figure 2
REVIEWED BY: RAC	PROJECT NO: 341-020-003	

P:\Retia - 341\CAD\020-003\FIG 02_341-020-003 AR-AFFF Storage Locations.dwg



SOIL SAMPLE LOCATIONS

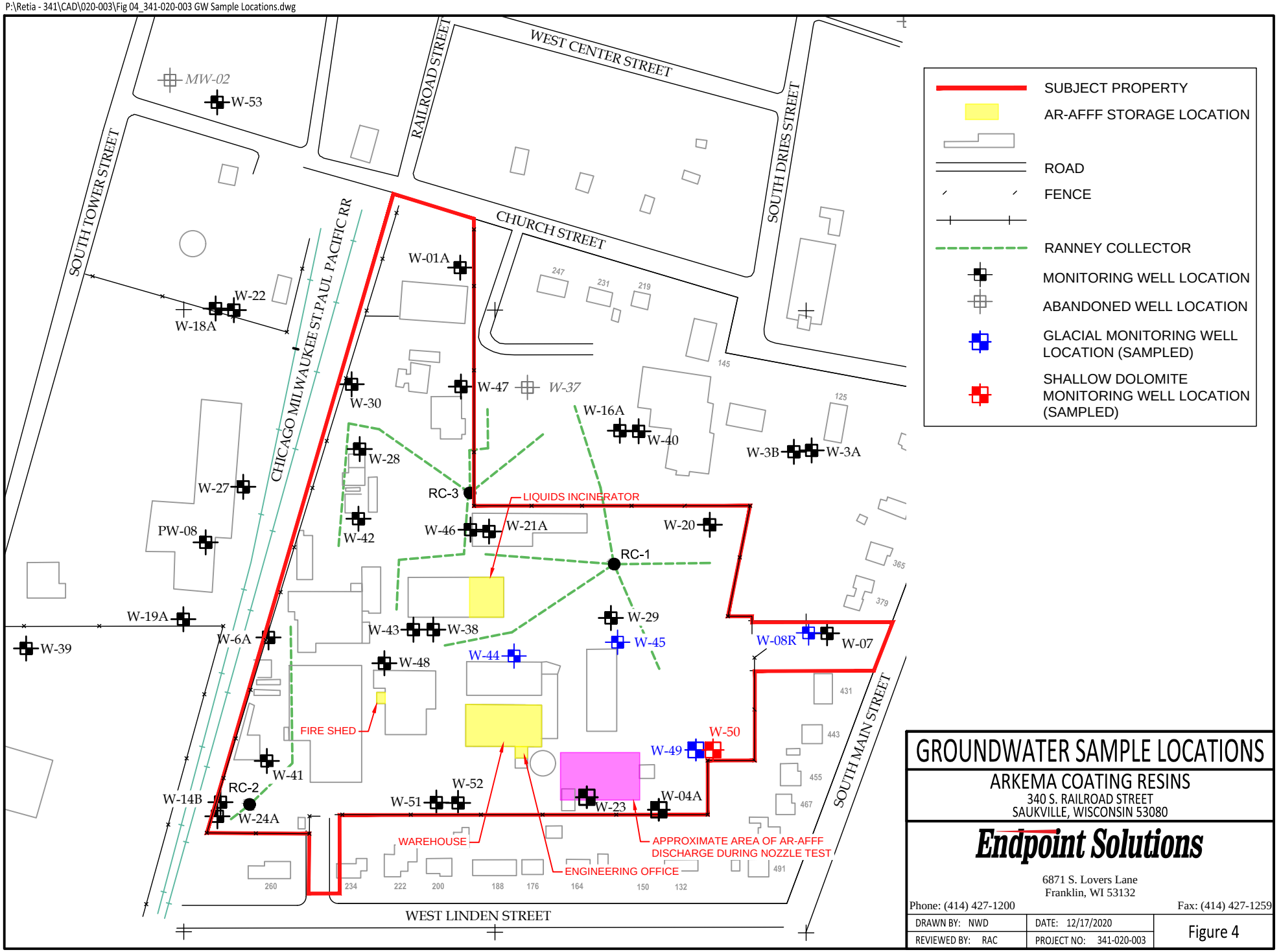
ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions
6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD	DATE: 12/09/2020	Figure 3
REVIEWED BY: RAC	PROJECT NO: 341-020-003	

P:\Retia - 341\CAD\020-003\FIG 03_341-020-003 Soil Sample Locations-201209.dwg

P:\Retia - 341\CAD\020-003\Fig 04_341-020-003 GW Sample Locations.dwg



GROUNDWATER SAMPLE LOCATIONS

ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions
6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD	DATE: 12/17/2020	Figure 4
REVIEWED BY: RAC	PROJECT NO: 341-020-003	

SUBJECT PROPERTY
RANNEY COLLECTOR
POWER & CONTROL CONDUITS & CONDUCTORS
GROUNDWATER DISCHARGE PIPING
W-30 DISCHARGE PIPING
SUBSURFACE STORM SEWER
BUILDINGS WITH BACKFILLED BASEMENTS
APPROXIMATE EXTENT OF AOCs
MONITORING WELL
SOIL BORING LOCATION (ENDPOINT 2022)
SOIL BORING LOCATION (ENDPOINT 2021)

N

0 120' 240'

CHURCH STREET
SOUTH TOWER STREET
CHICAGO MILWAUKEE ST. PAUL PACIFIC R.R.
SOUTH DRIES STREET
SOUTH MAIN STREET
MILWAUKEE RIVER

1000N 500E
1000N 1000E
1000N 1500E
500N 500E
500N 1000E
500N 1500E

AOC 1
AOC 2
AOC 3

B-6, 2-4'
0.000
0.000

RC-1
RC-2
RC-3

PFAS-1
PFAS-1, 3-4'
0.230
6.353

B-33, 0-2'
0
0.069

PFAS-2, 2-4'
0.16
1.220

PFAS-2

B-45, 6-8'
0.048
0

PFAS-3, 4-6'
0.180
0.380

PFAS-3

PFAS-4, 6-8'
0.079
0.810

PFAS-4

PFAS-5

PFAS-6

PFAS-7

PFAS-8

PFAS-7, 4-5'
0.417
0.250

PFAS-8, 6-8'
0.143
0

B-109, 3-4'
0.482
0.079

PFAS-5, 3-5'
0.173
0

PFAS-6, 5-7'
0.422
0.420

PFCAs / PFSAs IN SOIL (MG/KG)

ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions
6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD/SVG	DATE: 07/10/2024	Figure 5
REVIEWED BY: RAC	PROJECT NO: 341-023-001-005	

P:\Retia - 341\2023\001 - 2023 GWM\PFAS Results\CAD\001-005\FIG 05_341-023-001-005 PFCAs PFSAs in Soil.dwg

SOURCE: OZAUKEE COUNTY GIS, FREEMAN CHEMICAL CORPORATION SCAN DATED 7-15-87

TOTAL PFAS IN GROUNDWATER (NG/L)

ARKEMA COATING RESINS
340 S. RAILROAD STREET
SAUKVILLE, WISCONSIN 53080

Endpoint Solutions
6871 S. Lovers Lane
Franklin, WI 53132
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: NWD/SVG	DATE: 07/10/2024	Figure 6
REVIEWED BY: RAC	PROJECT NO:341-023-001-005	

SOURCE: OZAUKEE COUNTY GIS, FREEMAN CHEMICAL CORPORATION SCAN DATED 7-15-87

P:\Retia - 341\2023\001 - 2023 GW\PFAS Results\CAD\001-005\FIG 06_341-023-001-005_Total PFAs in Groundwater.dwg

TABLES

Table A.1
Groundwater Analytical Results - PFAS

Arkema Coating Resins
Saukville, Wisconsin

		CAS Number	Proposed WDNR Preventive Action Limit (ng/L)*	Proposed WDNR Enforcement Standard (ng/L)*	USEPA Health Advisory Level - (ng/L)*	W-01A-22-S1 Glacial 9/20/22	W-08R Glacial 11/10/20	W-08R Glacial 4/20/22	W-41-22-S1 Glacial 9/21/22	DUP 1 W-41 9/21/22	W-42-22-S1 Glacial 9/21/22	W-44 Glacial 11/10/20	W-44 Glacial 4/20/22	W-45 Glacial 11/10/20	W-45 Glacial 4/20/22	W-49 Glacial 11/10/20	W-49 Glacial 4/20/22	DUP 1 W-49 4/20/22	W-50 Shallow Dolomite 11/10/20	W-50 Shallow Dolomite 4/20/22
Perfluoroalkylcarboxylic Acids (PFCAs)																				
Perfluorobutanoic acid (PFBA)	C4	375-22-4	2,000	**10,000**	--	<2.2	<2.1	<2.3	9.1	9.2	<2.2	15	54	3.9 J	14	72	150	140	50	38
Perfluoropentanoic acid (PFPeA)	C5	2706-90-3	--	--	--	<0.45	<0.43	<0.46	1.5 J	1.6 J	<0.45	13	140	5.4	12	240	560	610	160	110
Perfluorohexanoic acid (PFHxA)	C6	307-24-4	30,000	**150,000**	--	<0.53	<0.51	<0.55	1.9	2.1	2.6	12	200	6.6	16	160	460	440	110	75
Perfluoroheptanoic acid (PFHpA)	C7	375-85-9	--	--	--	<0.23	<0.22	<0.24	1.8 J	1.8 J	2.8	7.2	98	3.8	7.5	180	300	310	98	54
Perfluorooctanoic acid (PFOA)	C8	335-67-1	2	**20**	70	<0.78	<0.75	<0.80	5.2	4.4	10	9.3	86	9.2	15	**72**	**100**	**110**	**43**	**31**
Perfluorononanoic acid (PFNA)	C9	375-95-1	3	**30**	--	<0.25	<0.24	<0.25	1.4 J	1.2 J	0.95 J	1.9	6.4	1.1 J	2.2	24	19	20	10	7.3
Perfluorodecanoic acid (PFDA)	C10	335-76-2	60	**300**	--	<0.28	<0.27	<0.29	0.6 J	0.50 J	<0.29	<0.27	<0.31	<0.28	<0.30	11	7.5	7.7	1.7 J	1.8 J
Perfluoroundecanoic acid (PFUnA)	C11	2058-94-8	600	**3,000**	--	<1.0	<0.97	<1.0	<1.0	<1.0	<1.0	<0.97	<1.1	<0.99	<1.1	<0.98	<1.1	<1.0	<0.99	<1.1
Perfluorododecanoic acid (PFDoA)	C12	307-55-1	100	**500**	--	<0.50	<0.49	<0.52	<0.51	<0.51	<0.51	<0.49	<0.55	<0.49	<0.54	0.77 J	<0.53	<0.51	<0.49	<0.53
Perfluorotridecanoic acid (PFTriA)	C13	72629-94-8	--	--	--	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.3
Perfluorotetradecanoic acid (PFTeA)	C14	376-06-7	2,000	**10,000**	--	<0.67	<0.65	<0.69	<0.68	<0.68	<0.68	<0.65	<0.73	<0.66	<0.72	<0.65	<0.70	<0.68	<0.66	<0.70
Perfluoro-n-hexadecanoic acid (PFHxDA)	C16	67905-19-5	--	--	--	NA	<0.79	<0.84	NA	NA	NA	<0.79	<0.89	<0.80	<0.87	<0.79	<0.85	<0.83	<0.80	<0.86
Perfluoro-n-octadecanoic acid (PFODA)	C18	16517-11-6	80,000	**400,000**	--	NA	<0.83	<0.89	NA	NA	NA	<0.83	<0.93	<0.85	<0.92	<0.83	<0.90	<0.87	<0.84	<0.91
Total PFCAs						0.0	0.0	0.0	21.5		16.35	58.4	584.4	30.0	66.7	759.8	1596.5		472.7	317.1
Perfluoroalkylsulfonic Acids (PFSAs)																				
Perfluorobutanesulfonic acid (PFBS)	C4	375-73-5	90,000	**450,000**	--	1.7 J	0.20 J	1.7 J	1.1 J	1.1 J	1.5 J	3.3	12	2.4	5.6	1.5 J	2.3	2.7	1.4 J	2.5
Perfluoropentanesulfonic acid (PFPeS)	C5	2706-91-4	--	--	--	<0.27	<0.27	<0.28	<0.28	<0.28	0.46 J	1.9	13	3.4	5.4	0.68 J	1.2 J	1.1 J	0.60 J	1.6 J
Perfluorohexanesulfonic acid (PFHxS)	C6	355-46-4	4	**40**	--	<0.52	<0.50	<0.54	1.1 J	1.0 J	3.6	20	83	**50**	**66**	13	14	14	13	21
Perfluoroheptanesulfonic Acid (PFHpS)	C7	375-92-8	--	--	--	<0.17	<0.17	<0.18	0.26 J	0.25 J	<0.18	0.31 J	4.5	5.1	7.4	<0.17	0.21 J	<0.18	<0.17	0.64 J
Perfluorooctane sulfonic acid (PFOS)	C8	1763-23-1	2	**20**	70	<0.49	<0.48	<0.51	14	15	2.0	**19**	**130**	**340**	**380**	**21**	**20**	19	**25**	**36**
Perfluorononanesulfonic acid (PFNS)	C9	68259-12-1	--	--	--	<0.34	<0.33	<0.35	<0.34	<0.34	<0.34	<0.33	<0.37	<0.33	<0.36	<0.33	<0.35	<0.34	<0.33	<0.36
Perfluorodecanesulfonic acid (PFDS)	C10	335-77-3	--	--	--	<0.29	<0.26	<0.30	<0.30	<0.30	<0.30	<0.28	<0.32	<0.29	<0.31	<0.28	<0.31	<0.30	<0.29	<0.31
Perfluorododecanesulfonic acid (PFDoS)	C12	79780-39-5	--	--	--	<0.89	<0.86	<0.91	<0.90	<0.90	<0.90	<0.86	<0.96	<0.87	<0.95	<0.86	<0.93	<0.90	<0.87	<0.94
Total PFSAs						1.7	0.20	1.7	16.46		7.10	44.51	242.5	400.9	464.4	35.50	37.71	35.7	39.40	61.74
Perfluoroalkane sulfonamides (FASAs)																				
Perfluorooctanesulfonamide (FOSA)	C8	754-91-6	2	**20**	--	1.1 J	6.2	<0.92	<0.91	<0.91	<0.91	<0.87	<0.97	1.0 J	<0.96	<0.87	<0.94	<0.91	<0.88	<0.95
NMeFOSA	C9	31506-32-8	--	--	--	<0.39	<0.38	<0.41	<0.40	<0.40	<0.40	<0.38	<0.43	<0.39	<0.42	<0.38	<0.41	<0.40	<0.39	<0.42
NEtFOSA	C10	4151-50-2	2	**20**	--	<0.80	<0.77	<0.82	<0.81	<0.81	<0.81	<0.77	<0.87	<0.78	<0.85	<0.77	<0.83	<0.81	<0.78	<0.84
Perfluoroalkane sulfamido acetic acids (FASAAs)																				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	C11	2355-31-9	--	--	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.2	<1.1	<1.2	<1.1	<1.1	<1.2
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	C12	2991-50-6	2	**20**	--	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**4.3 J**	<1.3	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.3
Perfluoroalkane sulfonamidoethanols (FASEs)																				
NMeFOSE	C11	24448-09-7	--	--	--	<1.3	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	<1.4	<1.3	<1.4	<1.2	<1.3	<1.3	<1.3	<1.4
NEtFOSE	C12	1691-99-2	2	**20**	--	<0.78	<0.75	<0.80	<0.79	<0.79	<0.79	<0.75	<0.85	<0.76	<0.83	<0.75	<0.82	<0.79	<0.76	<0.82
Fluorotelomer sulfonic acids (FTSAs)																				
4:2 FTS	C6	757124-72-4	--	--	--	<0.22	<0.21	<0.23	<0.22	<0.22	<0.22	<0.21	<0.24	<0.22	<0.24	<0.21	<0.23	<0.22	<0.22	<0.23
6:2 FTS	C8	27619-97-2	--	--	--	<2.3	<2.2	<2.4	<2.3	<2.3	<2.3	<2.2	45	<2.2	<2.5	5.5	44	42	4.8	5.0
8:2 FTS	C10	39108-34-4	--	--	--	<0.42	<0.41	<0.43	<0.43	<0.43	<0.43	0.43 J	<0.46	<0.41	<0.45	3.9	3.3	3.3	3.2	2.1
10:2 FTS	C12	120226-60-0	--	--	--	NA	<0.59+	<0.63	NA	NA	NA	2.1	<0.67	<0.60	<0.66	5.1	1.1 J	0.99 J	<0.60	<0.65
Polyfluoroalkyl Ether Acids																				
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	C7	919005-14-4	600	**3,000**	--	<0.37	<0.35	<0.38	<0.37	<0.37	<0.37	<0.35	<0.40	<0.36	<0.39	<0.36	<0.38	<0.37	<0.36	<0.39
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)																				
HFPO-DA (GenX)	C6	13252-13-6	30	**300**	--	<1.4	<1.3	<1.4	<1.4	<1.4	<1.4	<1.3	<1.5	<1.3	<1.5	<1.3	<1.4	<1.4	<1.3	<1.4
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)																				
F-53B Major (9Cl-PF3ONS)	C8	756426-58-1	--	--	--	<0.22	<0.21	<0.23	<0.22	<0.22	<0.22	<0.21	<0.24	<0.22	<0.24	<0.21	<0.23	<0.22	<0.22	<0.23
F-53B Minor (11Cl-PF3OUdS)	C10	763051-92-9	--	--	--	<0.29	<0.28	<0.30	<0.30	<0.30	<0.30	<0.28	<0.32	<0.29	<0.31	<0.28	<0.31	<0.30	<0.29	<0.31
Hazard Index						0.055	0.31	0.000	1.037	1.038	0.722	2.195	13.095	18.797	21.475	5.821	7.026	7.509	4.070	4.123

Notes:
ng/L : nanograms per liter
*: Standards apply to a combination of PFOA and PFOS when both are present
"J" : Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value
Preventive Action Limits and Enforcement Standards based on DHS Recommended Groundwater Standards - Cycle 11 (November 6, 2020)
--: No established standard
The DHS recommends a combined enforcement standard of 20 ng/L and a combined preventive action limit of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS and PFOA

Table A.1
Groundwater Analytical Results - PFAS

Arkema Coating Resins
Saukville, Wisconsin

		CAS Number	Proposed WDNR Preventive Action Limit	Proposed WDNR Enforcement Standard	USEPA Health Advisory Level - (ng/L)*	TW-06-22-S1 Glacial 9/20/22	TW-30-22-S1 Glacial 9/21/22	TW-33-22-S1 Glacial 9/21/22	TW-36-22-S1 Glacial 9/21/22	TW-40-22-S1 Glacial 9/21/22	TW-43-22-S1 Glacial 9/21/22	TW-45-22-S1 Glacial 9/21/22	TW-47-22-S1 Glacial 9/21/22	TW-109-22-S1 Glacial 9/21/22	FB-1 Field Blank 11/10/20	FB-1 Field Blank 4/20/22	EB-1 Equipment Blank 11/10/20	EB-1 Equipment Blank 4/20/22	EB- Equipment Blank 10/10/22	TB-Water Trip Blank 11/10/20
Perfluoroalkylcarboxylic Acids (PFCAs)																				
Perfluorobutanoic acid (PFBA)	C4	375-22-4	2,000	**10,000**	--	51	<2.3	100	14 J	<23	<240	120	43	100	<2.3	<2.3	<2.2	<2.2	<2.2	<2.9
Perfluoropentanoic acid (PFPeA)	C5	2706-90-3	--	--	--	140	11	320	7.9 J	<0.46	<4.6	170	7.2	280	<0.48	<0.47	<0.45	<0.45	<0.45	<0.59
Perfluorohexanoic acid (PFHxA)	C6	307-24-4	30,000	**150,000**	--	59	29	310	9.4 J	5.5 I	21	340	31	240	<0.56	<0.55	<0.53	<0.53	<0.53	<0.69
Perfluoroheptanoic acid (PFHpA)	C7	375-85-9	--	--	--	52	6.6	160	13	5.1	6.7 J	110	16	160	<0.24	<0.24	<0.23	<0.23	<0.23	<0.30
Perfluorooctanoic acid (PFOA)	C8	335-67-1	2	**20**	70	19	**24**	12	**120**	**24**	**43**	**42**	**68**	**36**	<0.82	<0.81	<0.78	<0.78	<0.77	<1.0
Perfluorononanoic acid (PFNA)	C9	375-95-1	3	**30**	--	3.5	0.97 J	0.33 J	<1.4	0.72 J	<2.5	<0.25	0.54 J	<0.25	<0.26	<0.26	<0.25	<0.25	<0.25	<0.32
Perfluorodecanoic acid (PFDA)	C10	335-76-2	60	**300**	--	0.53 J	<0.29	<0.28	<1.6	<0.29	<2.9	<0.29	<0.29	<0.29	<0.30	<0.30	<0.28	<0.29	<0.28	<0.37
Perfluoroundecanoic acid (PFUnA)	C11	2058-94-8	600	**3,000**	--	<1.0	<1.0	<1.0	<5.5	<1.0	<10	<1.0	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0	<1.0	<1.3
Perfluorododecanoic acid (PFDoA)	C12	307-55-1	100	**500**	--	<0.50	<0.52	<0.50	<2.8	<0.52	<5.1	<0.51	<0.51	<.51	<0.53	<0.52	<0.50	<0.51	<0.5	<0.66
Perfluorotridecanoic acid (PFTriA)	C13	72629-94-8	--	--	--	<1.2	<1.2	<1.2	<6.5	<1.2	<12	<1.2	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.6
Perfluorotetradecanoic acid (PFTeA)	C14	376-06-7	2,000	**10,000**	--	<0.67	<0.69	<0.66	<3.7	<0.69	<6.8	<0.67	<0.68	<0.68	<0.71	<0.70	<0.67	<0.67	<0.66	<0.87
Perfluoro-n-hexadecanoic acid (PFHxDA)	C16	67905-19-5	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.86	<0.85	<0.82	<0.82	NA	<1.1
Perfluoro-n-octadecanoic acid (PFODA)	C18	16517-11-6	80,000	**400,000**	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.91	<0.90	<0.86	<0.87	NA	<1.1
Total PFCAs						325.03	71.57	902.33	164.3	35.32	70.7	782	165.74	816						
Perfluoroalkylsulfonic Acids (PFSAs)																				
Perfluorobutanesulfonic acid (PFBS)	C4	375-73-5	90,000	**450,000**	--	3.8	17	2.1	<1.0	<0.19	17 J	2.7	5.5	<0.19	<0.19	<0.19	<0.18	<0.18	<0.18	<0.24
Perfluoropentanesulfonic acid (PFPeS)	C5	2706-91-4	--	--	--	4.9	19	1.8	1.5 J	8.8 I	14 J	1.3 J	7.5 I	<0.28	<0.29	<0.29	<0.27	<0.28	<0.27	<0.36
Perfluorohexanesulfonic acid (PFHxS)	C6	355-46-4	4	**40**	--	29	**150**	19	18	**110**	**100**	11	37	2.3	<0.55	<0.54	<0.52	<0.53	<0.52	<0.68
Perfluoroheptanesulfonic Acid (PFHpS)	C7	375-92-8	--	--	--	0.52 J	7.7	<0.17	<0.95	<0.18	<1.8	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17	<0.18	<0.17	<0.23
Perfluorooctane sulfonic acid (PFOS)	C8	1763-23-1	2	**20**	70	**24**	**100**	2.5	12	7.0	**29**	1.2 J	17	<0.51	<0.52	<0.51	<0.49	<0.50	<0.49	<0.65
Perfluorononanesulfonic acid (PFNS)	C9	68259-12-1	--	--	--	<0.34	<0.35	<0.34	<1.9	<0.35	<3.5	<0.34	<0.34	<0.35	<0.36	<0.35	<0.34	<0.34	<0.34	<0.44
Perfluorodecanesulfonic acid (PFDS)	C10	335-77-3	--	--	--	<0.29	<0.30	<0.29	<1.6	<0.30	<3.0	<0.29	<0.30	<0.30	<0.31	<0.30	<0.29	<0.29	<0.29	<0.38
Perfluorododecanesulfonic acid (PFDoS)	C12	79780-39-5	--	--	--	<0.89	<0.92	<0.88	<4.9	<0.92	<9.1	<0.89	<0.90	<0.91	<0.94	<0.92	<0.89	<0.89	<0.88	<1.2
Total PFSAs						62.22	293.70	25.40	31.5	125.8	160	16.2	67.0	2.3						
Perfluoroalkane sulfonamides (FASAs)																				
Perfluorooctanesulfonamide (FOSA)	C8	754-91-6	2	**20**	--	<0.90	<0.93	<0.89	<4.9	<0.93	<9.2	<0.90	<0.91	<0.92	<0.95	<0.93	<0.90	<0.90	<0.89	<1.2
NMeFOSA	C9	31506-32-8	--	--	--	<0.89	<0.41	<0.39	<2.2	<0.41	<4.0	<0.40	<0.40	<0.40	<0.42	<0.41	<0.39	<0.40	<0.39	<0.51
NEtFOSA	C10	4151-50-2	2	**20**	--	<0.80	<0.83	<0.79	<4.4	<0.83	<8.1	<0.80	<0.81	<0.81	<0.84	<0.83	<0.80	<0.80	<0.79	<1.0
Perfluoroalkane sulfamido acetic acids (FASAAs)																				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	C11	2355-31-9	--	--	--	<1.1	<1.1	<1.1	<6.0	<1.1	<11	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1.4
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	C12	2991-50-6	2	**20**	--	<1.2	<1.2	<1.2	<6.5	<1.2	<12	<1.2	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.6
Perfluoroalkane sulfonamidoethanols (FASEs)																				
NMeFOSE	C11	24448-09-7	--	--	--	<1.3	<1.3	<1.3	<7.0	<1.3	<13	<1.3	<1.3	<1.3	<1.4	<1.3	<1.3	<1.3	<1.3	<1.7
NEtFOSE	C12	1691-99-2	2	**20**	--	<0.78	<0.81	<0.77	<4.3	<0.81	<7.9	<0.78	<0.79	<0.80	<0.82	<0.81	<0.78	<0.78	<0.77	<1.0
Fluorotelomer sulfonic acids (FTSAs)																				
4:2 FTS	C6	757124-72-4	--	--	--	<0.22	<0.23	<0.22	<1.2	<2.3	<2.2	<0.22	<0.22	0.92 J,I	<0.23	<0.23	<0.22	<0.22	<0.22	<0.29
6:2 FTS	C8	27619-97-2	--	--	--	16	2.6 J	<2.3	<13	<24	<23	3.1 J	<2.3	340	<2.4	<2.4	<2.3	<2.3	<2.3	<3.0
8:2 FTS	C10	39108-34-4	--	--	--	2.6	<0.44	<0.42	<2.3	<4.4	<4.3	<0.42	<0.43	<0.43	<0.45	<0.44	<0.42	<0.42	<0.42	<0.55
10:2 FTS	C12	120226-60-0	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.65	<0.64	<0.61	<0.62	NA	<0.80
Polyfluoroalkyl Ether Acids																				
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	C7	919005-14-4	600	**3,000**	--	<0.37	<0.38	<0.36	<2.0	<0.38	<3.7	<0.37	<0.37	<0.37	<0.39	<0.38	<0.37	<0.37	<0.36	<0.48
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)																				
HFPO-DA (GenX)	C6	13252-13-6	30	**300**	--	<1.4	<1.4	<1.4	<7.5	<1.4	<14	<1.4	<1.4	<1.4	<1.5	<1.4	<1.4	<1.4	<1.4	<1.8
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)																				
F-53B Major (9Cl-PF3ONS)	C8	756426-58-1	--	--	--	<0.22	<0.23	<0.22	<1.2	<0.23	<2.2	<0.22	<0.22	<0.22	<0.23	<0.23	<0.22	<0.22	<0.22	<0.29
F-53B Minor (11Cl-PF3OUdS)	C10	763051-92-9	--	--	--	<0.29	<0.30	<0.29	<1.6	<0.3	<3.0	<0.29	<0.30	<0.30	<0.31	<0.30	<0.29	<0.29	<0.29	<0.38
Hazrd Index						2.999	9.983	1.223	7.051	4.324	6.100	2.449	5.198	1.869	0	0	0	0	0	0

Notes:

ng/L : nanograms per liter

*: Standards apply to a combination of PFOA and PFOS when both are present

"J" : Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value

Preventive Action Limit (PAL) and Enforcement Standard (ES) based on DHS Recommended Groundwater Standards - Cycle 11 (November 6, 2020)

--: No established standard

Indiactes DHS recommended combined ES of 20 ng/L exceedance or PAL of 2 ng/L exceedance for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS and PFOA

Underlined result indicates PAL exceedance

Bold indicates ES exceedance

Yellow shading indiactes USEPA Health Advisory Level exceedance

Table A.2.a
Soil Analytical Results - PFAS

Arkema Coating Resins
Saukville, Wisconsin

PFAS Analyte		CAS Number	Units	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	PFAS-1 11/10/20 3-4'	PFAS-2 11/10/20 2-4'	PFAS-3 11/10/20 4-6'	PFAS-4 11/10/20 6-8'	PFAS-5 11/10/20 3-5'	PFAS-6 11/10/20 5-7'	PFAS-7 11/10/20 4-5'	PFAS-8 11/10/20 6-8'	EB-1 11/10/20	EB-2 11/10/20	FB-1 11/10/20	FB-2 11/10/20	TB-Soil 11/10/20
Perfluoroalkyl Carboxylates (PFCAs)																		
Perfluorobutanoic acid (PFBA)	C4	375-22-4	ug/Kg			0.10 J,B	0.16 J,B	0.14 J,B	<0.060	0.14 J,B	0.17 J,B	0.14 J,B	0.11 J,B	<2.2	<2.2	<2.2	<2.2	<2.2
Perfluoropentanoic acid (PFPeA)	C5	2706-90-3	ug/Kg			<0.094	<0.089	<0.087	<0.16	<0.082	0.14 J	0.12 J	<0.085	<0.45	<0.45	<0.45	<0.45	<0.45
Perfluorohexanoic acid (PFHxA)	C6	307-24-4	ug/Kg			<0.051	<0.048	<0.048	<0.090	<0.045	0.099 J	0.065 J	<0.047	<0.53	<0.53	<0.54	<0.53	<0.54
Perfluoroheptanoic acid (PFHpA)	C7	375-85-9	ug/Kg			<0.035	<0.033	0.04 J	0.079 J	0.033 J	0.083 J	0.11 J	0.033 J	<0.23	<0.23	<0.23	<0.23	<0.23
Perfluorooctanoic acid (PFOA)	C8	335-67-1	ug/Kg	16,400	12,600	0.13 J	<0.099	<0.098	<0.18	<0.091	0.10 J	<0.094	<0.095	<0.78	<0.78	<0.79	<0.78	<0.79
Perfluorononanoic acid (PFNA)	C9	375-95-1	ug/Kg			<0.044	<0.041	<0.041	<0.077	<0.038	<0.039	0.055 J	<0.040	<0.25	<0.25	<0.25	<0.25	<0.25
Perfluorodecanoic acid (PFDA)	C10	335-76-2	ug/Kg			<0.027	<0.025	<0.025	<0.047	<0.023	<0.024	0.067 J	<0.024	<0.29	<0.29	<0.29	<0.29	<0.29
Perfluoroundecanoic acid (PFUnA)	C11	2058-94-8	ug/Kg			<0.044	<0.041	<0.041	<0.077	<0.038	<0.039	<0.040	<0.040	<1.0	<1.0	<1.0	<1.0	<1.0
Perfluorododecanoic acid (PFDoA)	C12	307-55-1	ug/Kg			<0.081	<0.077	<0.076	<0.14	<0.071	<0.073	<0.074	<0.074	<0.51	<0.51	<0.51	<0.51	<0.51
Perfluorotridecanoic acid (PFTriA)	C13	72629-94-8	ug/Kg			<0.062	<0.059	<0.058	<0.11	<0.054	<0.056	<0.056	<0.057	<1.2	<1.2	<1.2	<1.2	<1.2
Perfluorotetradecanoic acid (PFTeA)	C14	376-06-7	ug/Kg			<0.066	<0.062	<0.061	<0.12	<0.057	<0.059	<0.059	<0.060	<0.67	<0.67	<0.68	<0.67	<0.67
Perfluoro-n-hexadecanoic acid (PFHxDA)	C16	67905-19-5	ug/Kg			<0.054	<0.051	<0.050	<0.094	<0.047	<0.048	<0.048	<0.049	<0.82	<0.82	<0.82	<0.82	<0.82
Perfluoro-n-octadecanoic acid (PFODA)	C18	16517-11-6	ug/Kg			<0.034	<0.032	<0.032	<0.060	<0.030	<0.031	<0.031	<0.031	<0.87	<0.87	<0.87	<0.87	<0.87
Total PFCAs			ug/Kg			0.230	0.16	0.180	0.079	0.173	0.422	0.417	0.143					
Perfluoroalkyl Sulfonates (PFSAs)																		
Perfluorobutanesulfonic acid (PFBS)	C4	375-73-5	ug/Kg	16,400,000	1,260,000	<0.030	<0.029	<0.028	<0.053	<0.027	<0.027	<0.027	<0.028	<0.18	<0.18	<0.19	<0.18	<0.18
Perfluoropentanesulfonic acid (PFPeS)	C5	2706-91-4	ug/Kg			0.053 J	<0.023	<0.023	<0.043	<0.021	<0.022	<0.022	<0.022	<0.28	<0.28	<0.28	<0.28	<0.28
Perfluorohexanesulfonic acid (PFHxS)	C6	355-46-4	ug/Kg			1.8	0.69	<0.035	<0.066	<0.033	<0.034	<0.034	<0.034	<0.53	<0.52	<0.53	<0.53	<0.53
Perfluoroheptanesulfonic Acid (PFHpS)	C7	375-92-8	ug/Kg			1.9	<0.040	<0.040	<0.075	<0.037	<0.038	<0.038	<0.039	<0.18	<0.17	<0.18	<0.18	<0.18
Perfluorooctanesulfonic acid (PFOS)	C8	1763-23-1	ug/Kg	16,400	12,600	2.6 I	0.53 J	0.38 J	0.81 J	<0.21	0.42 J	0.25 J	<0.22	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorononanesulfonic acid (PFNS)	C9	68259-12-1	ug/Kg			<0.024	<0.023	<0.023	<0.043	<0.021	<0.022	<0.022	<0.022	<0.34	<0.34	<0.34	<0.34	<0.34
Perfluorodecanesulfonic acid (PFDS)	C10	335-77-3	ug/Kg			<0.047	<0.045	<0.044	<0.083	<0.041	<0.043	<0.043	<0.043	<0.29	<0.29	<0.30	<0.29	<0.30
Perfluorododecanesulfonic acid (PFDoS)	C12	79780-39-5	ug/Kg			<0.073	<0.069	<0.068	<0.13	<0.064	<0.065	<0.066	<0.067	<0.89	<0.89	<0.90	<0.89	<0.90
Total PFSAs			ug/Kg			6.353	1.220	0.380	0.810	0.000	0.420	0.250	0.000					
Perfluoroalkane sulfonamides (FASAs)																		
Perfluorooctanesulfonamide (FOSA)	C8	754-91-6	ug/Kg			<0.10	<0.094	<0.093	<0.18	<0.087	<0.089	<0.090	<0.091	<0.90	<0.90	<0.91	<0.90	<0.91
NMeFOSA	C9	31506-32-8	ug/Kg			<0.050	<0.047	<0.047	<0.088	<0.044	<0.045	<0.045	<0.045	<0.40	<0.40	<0.40	<0.40	<0.40
NEtFOSA	C10	4151-50-2	ug/Kg			<0.029	<0.028	<0.027	<0.051	<0.026	<0.026	<0.026	<0.027	<0.80	<0.80	<0.81	<0.80	<0.80
Perfluoroalkane sulfamido acetic acids (FASAAs)																		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	C11	2355-31-9	ug/Kg			<0.47	<0.45	<0.44	<0.83	<0.41	<0.43	<0.43	<0.43	<1.1	<1.1	<1.1	<1.1	<1.1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	C12	2991-50-6	ug/Kg			<0.45	<0.43	<0.42	<0.79	<0.39	<0.40	<0.41	<0.41	<1.2	<1.2	<1.2	<1.2	<1.2
Perfluoroalkane sulfonamidoethanols (FASEs)																		
NMeFOSE	C11	24448-09-7	ug/Kg			<0.086	<0.082	<0.081	<0.15	<0.076	<0.077	<0.78	<0.079	<1.3	<1.3	<1.3	<1.3	<1.3
NEtFOSE	C12	1691-99-2	ug/Kg			<0.044	<0.041	<0.041	<0.077	0.067 J	<0.039	<0.040	0.11 J	<0.78	<0.78	<0.79	<0.78	<0.79
Fluorotelomer sulfonic acids (FTSAs)																		
4:2 FTS	C6	757124-72-4	ug/Kg			<0.45	<0.43	<0.42	<0.79	<0.39	<0.40	<0.41	<0.41	<0.22	<0.22	<0.22	<0.22	<0.22
6:2 FTS	C8	27619-97-2	ug/Kg			<0.18	<0.17	<0.17	<0.32	<0.16	0.78 J	<0.16	<0.17	<2.3	<2.3	<2.3	<2.3	<2.3
8:2 FTS	C10	39108-34-4	ug/Kg			<0.30	<0.29	<0.28	<0.53	<0.27	<0.27	<0.27	<0.28	<0.43	<0.42	<0.43	<0.42	<0.42
10:2 FTS	C12	120226-60-0	ug/Kg			<0.061	<0.057	<0.057	<0.11	<0.053	<0.055	<0.055	<0.055	<0.62	<0.62	<0.62	<0.62	<0.62
Polyfluoroalkyl Ether Acids																		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	C7	919005-14-4	ug/Kg			<0.022	<0.021	<0.020	<0.038	<0.019	<0.020 F1	<0.020	<0.020	<0.37	<0.37	<0.37	<0.37	<0.37
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)																		
HFPO-DA (GenX)	C6	13252-13-6	ug/Kg			<0.13	<0.13	<0.12	<0.24	<0.12	<0.12 F1	<0.12	<0.12	<1.4	<1.4	<1.4	<1.4	<1.4
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)																		
F-53B Major	C8	756426-58-1	ug/Kg			<0.033	<0.031	<0.031	<0.058	<0.029	<0.029	<0.030	<0.030	<0.22	<0.22	<0.22	<0.22	<0.22
F-53B Minor	C10	763051-92-9	ug/Kg			<0.027	<0.025	<0.025	<0.047	<0.023	<0.024	<0.024	<0.024	<0.29	<0.30	<0.30	<0.29	<0.30

Notes:
µg/Kg - Micrograms per kilogram
*5: Isotope dilution analyte is outside acceptable limits Standards apply to a combination of PFOA and PFOS when both are present
B : Compound was found in the blank and sample
F1 : Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits
I : Value is estimated maximum possible concentration (EMPC)
"J" : Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value
RCL: Residual Contaminant Level

Table A.2.b
Soil Analytical Results - PFAS

Arkema Coating Resins
Saukville, Wisconsin

PFAS Analyte		CAS Number	Units	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	Boring No. / Depth (ft bgs) / Lab ID / Date / Northing / Easting / GS Elevation / Sat/Unsat Area	B-6 2-4' 222051-1 9/8/2022 839 919 770.09 Unsat AOC 1	B-33 0-2' 222051-4 9/8/2022 424 1016 769.48 Unsat Warehouse (34)	B-45 6-8' 222051-5 9/8/2022 351 1020 769.47 Unsat Warehouse (32)	B-109 3-4' 222051-6 9/8/2022 255 1091 767.80 Unsat South of 38	EB-Liner -- 222051-2 9/8/2022 -- -- -- -- --	EB-Prepack -- 222051-3 9/8/2022 -- -- -- -- --
Perfluoroalkylcarboxylic Acids (PFCAs)												
Perfluorobutanoic acid (PFBA)	C4	375-22-4	ug/Kg				<0.052	<0.045	<0.050	<0.061	<2.0	<2.7
Perfluoropentanoic acid (PFPeA)	C5	2706-90-3	ug/Kg				<0.047	<0.040	<0.044	0.13 J	<0.40	<0.54
Perfluorohexanoic acid (PFHxA)	C6	307-24-4	ug/Kg				<0.035	<0.031	0.048 J	0.094 J	<0.47	<0.64
Perfluoroheptanoic acid (PFHpA)	C7	375-85-9	ug/Kg				<0.043	<0.038	<0.041	0.18 J	<0.20	<0.28
Perfluorooctanoic acid (PFOA)	C8	335-67-1	ug/Kg	16,400	12,600		<0.060	<0.052	<0.057	0.078 J	<0.69	<0.94
Perfluorononanoic acid (PFNA)	C9	375-95-1	ug/Kg				<0.025	<0.022	<0.024	<0.029	<0.22	<0.30
Perfluorodecanoic acid (PFDA)	C10	335-76-2	ug/Kg				<0.055	<0.047	<0.052	<0.064	<0.25	<0.34
Perfluoroundecanoic acid (PFUnA)	C11	2058-94-8	ug/Kg				<0.048	<0.041	<0.045	<0.056	<0.89	<1.2
Perfluorododecanoic acid (PFDoA)	C12	307-55-1	ug/Kg				<0.034	<0.030	<0.032	<0.040	<0.45	<0.61
Perfluorotridecanoic acid (PFTrDA)	C13	72629-94-8	ug/Kg				<0.024	<0.021	<0.023	<0.028	<1.1	<1.4
Perfluorotetradecanoic acid (PFTeA)	C14	376-06-7	ug/Kg				<0.042	<0.037	<0.040	<0.049	<0.59	<0.81
Perfluoro-n-hexadecanoic acid (PFHxDA)	C16	67905-19-5	ug/Kg				NR	NR	NR	NR	NR	NR
Perfluoro-n-octadecanoic acid (PFODA)	C18	16517-11-6	ug/Kg				NR	NR	NR	NR	NR	NR
Total PFCAs			ug/Kg				0.000	0.000	0.048	0.482		
Perfluoroalkylsulfonic Acids (PFSAs)												
Perfluorobutanesulfonic acid (PFBS)	C4	375-73-5	ug/Kg	16,400,000	1,260,000		<0.043	<0.038	<0.041	<0.050	<0.16	<0.22
Perfluoropentanesulfonic acid (PFPeS)	C5	2706-91-4	ug/Kg				<0.042	<0.037	<0.040	<0.049	<0.24	<0.33
Perfluorohexanesulfonic acid (PFHxS)	C6	355-46-4	ug/Kg				<0.033	<0.029	<0.031	<0.038	<0.46	<0.63
Perfluoroheptanesulfonic Acid (PFHpS)	C7	375-92-8	ug/Kg				<0.056	<0.048	<0.053	<0.065	<0.15	<0.21
Perfluorooctanesulfonic acid (PFOS)	C8	1763-23-1	ug/Kg	16,400	12,600		<0.049	0.069 J	<0.047	0.079 J,I	<0.44	<0.60
Perfluorononanesulfonic acid (PFNS)	C9	68259-12-1	ug/Kg				<0.033	<0.029	<0.031	<0.038	<0.30	<0.41
Perfluorodecanesulfonic acid (PFDS)	C10	335-77-3	ug/Kg				<0.059	<0.051	<0.056	<0.069	<0.26	<0.35
Perfluorododecanesulfonic acid (PFDoS)	C12	79780-39-5	ug/Kg				<0.053	<0.046	<0.051	<0.062	<0.79	<1.1
Total PFSAs			ug/Kg				0.000	0.069	0.000	0.079		
Perfluoroalkane sulfonamides (FASAs)												
Perfluorooctanesulfonamide (FOSA)	C8	754-91-6	ug/Kg				<0.038	<0.033	0.076 J	<0.044	<0.80	<1.1
NMeFOSA	C9	31506-32-8	ug/Kg				<0.056	<0.048	<0.053	<0.065	<0.35	<0.48
NEtFOSA	C10	4151-50-2	ug/Kg				<0.053	<0.046	<0.051	<0.062	<0.71	<0.96
Perfluoroalkane sulfamido acetic acids (FASAAs)												
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	C11	2355-31-9	ug/Kg				<0.026	<0.023	<0.025	<0.030	<0.98	<1.3
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	C12	2991-50-6	ug/Kg				<0.055	<0.047	<0.052	<0.064	<1.1	<1.4
Perfluoroalkane sulfonamidoethanols (FASEs)												
NMeFOSE	C11	24448-09-7	ug/Kg				<0.053	<0.046	<0.051	<0.062	<1.1	<1.6
NEtFOSE	C12	1691-99-2	ug/Kg				<0.032	<0.028	<0.030	<0.037	<0.69	<0.94
Fluorotelomer sulfonic acids (FTSAs)												
4:2 FTS	C6	757124-72-4	ug/Kg				<0.058	<0.050	<0.055	<0.068	<0.20	<0.27
6:2 FTS	C8	27619-97-2	ug/Kg				<0.031	<0.027	<0.029	<0.036	<2.0	<2.8
8:2 FTS	C10	39108-34-4	ug/Kg				<0.040	<0.035	<0.038	<0.046	<0.37	<0.51
Polyfluoroalkyl Ether Acids												
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	C7	919005-14-4	ug/Kg				<0.044	<0.039	<0.042	<0.052	<0.33	<0.44
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)												
HFPO-DA (GenX)	C6	13252-13-6	ug/Kg				<0.047	<0.040	<0.044	<0.054	<1.2 *1	<1.7 *1
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)												
F-53B Major (9Cl-PF3ONS)	C8	756426-58-1	ug/Kg				<0.040	<0.035	<0.038	<0.046	<0.20	<0.27
F-53B Minor (11Cl-PF3OUdS)	C10	763051-92-9	ug/Kg				<0.035	<0.031	<0.034	<0.041	<0.26	<0.35

Notes:
µg/Kg - Micrograms per kilogram
NR - Result not report by Eurofins-TestAmerica
*5: Isotope dilution analyte is outside acceptable limits Standards apply to a combination of PFOA and PFOS when both are present
B : Compound was found in the blank and sample
F1 : Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits
I : Value is estimated maximum possible concentration (EMPC)
"J" : Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value
*1 : Laboratory Control Spike/Laboratory Constrol Spike Duplicate exceeds control limits
RCL: Residual Contaminant Level

APPENDIX A

UNIVERSAL GOLD SDS

UNIVERSAL GOLD SPECIFICATION SHEET

SAFETY DATA SHEET – NMS#420
Universal Gold®C6 1%/3% Alcohol Resistant Aqueous Film Forming Foam Concentrate (AR-AFFF)

1. IDENTIFICATION

Product Name	Universal Gold®C6 1%/3% Alcohol Resistant Aqueous Film Forming Foam Concentrate (AR-AFFF)
Recommended use of the chemical and restrictions on use	
Identified uses	Firefighting Foam Concentrate
Restrictions on Use	See Section 15
Company Identification	National Foam 350 East Union Street West Chester, PA 19382
Customer Information Number	(610) 363-1400
Emergency Telephone Number	Infotrac at (800) 535-5053
Issue Date	May 18, 2021
Supersedes Date	November 20, 2020

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification
Eye Damage/Irritation – Category 2A

Label Elements
Hazard Symbols

Signal Word: Warning

Hazard Statements
Causes serious eye irritation.

Precautionary Statements
Prevention
Wash hands thoroughly after handling.
Wear eye protection and face protection.
Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Storage
None
Disposal
None

Other Hazards
This product contains fluoroalkyl surfactants which are and include PFAS (per- or poly- fluoroalkyl substances) and is required to be disposed of by high temperature incineration. See Sections 13 and 15 for additional information.

2. HAZARD IDENTIFICATION

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	<5%
Acute dermal toxicity	5 - 15%
Acute inhalation toxicity	15 - 25%
Acute aquatic toxicity	15 - 25%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Sodium decyl sulfate	142-87-0	1 - 5%
Alkylpolyglycoside	132778-08-6	1 - 5%
Dipropylene Glycol Monomethyl Ether	34590-94-8	1 - 5%

*Exact concentration withheld as trade secret.

This product contains fluoroalkyl surfactants which are and include PFAS (per- or poly- fluoroalkyl substances). See Sections 13 and 15 for additional information.

4. FIRST- AID MEASURES

Description of necessary first-aid measures
Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
Skin
Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.
Ingestion
Dilute by drinking large quantities of water and obtain medical attention.
Inhalation
Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed
Notes to Physicians
Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved.

5. FIRE - FIGHTING MEASURES

Specific hazards arising from the chemical
None known

Special Protective Actions for Fire-Fighters
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Prevent skin and eye contact.

Environmental Precautions
Environmental exposure controls: Observe local/national regulations on emissions. Ensure all local/national regulations are observed.
Prevent foam concentrate or foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of concentrate or foam solution should be made in accordance with federal, state, and local regulations. See Section 13 for disposal requirements.

Methods and materials for containment and cleaning up
Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal. See Section 13 for disposal requirements.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage
Store in original containers between 35°F and 120°F (2°C and 49°C). Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Dipropylene Glycol Monomethyl Ether
ACGIH TLV: 100 ppm (606 mg/m^3) 8hr TWA; 15 min STEL 150 ppm (909 mg/m^3); Danger of cutaneous absorption.
OSHA PEL: 100 ppm (600 mg/m3) Danger of cutaneous absorption.

Appropriate engineering controls
Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection measures
Respiratory Protection
Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Skin Protection
Gloves
Eye/Face Protection
Chemical goggles or safety glasses with side shields.
Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid
Color	Amber
Odor	Mild, pleasant
Odor Threshold	No data available
pH	8.2
Specific Gravity	1.03
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (°C/F)	>200°F
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	Not applicable
VOC (%)	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	No data available
Upper explosive limit	Not applicable
Lower explosive limit	Not applicable
Flammability (solid, gas)	Not applicable

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

10. STABILITY AND REACTIVITY

Conditions to Avoid
Contact with incompatible materials

Incompatible Materials
Water reactive materials – burning metals – electronically energized equipment

Hazardous Decomposition Products
Oxides of carbon – hydrogen fluoride – aldehydes – ketones – organic acids

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product
Oral LD50 (rat) >5000mg/kg
Alkylpolyglycoside
Oral LD50 (rat) >5000mg/kg
Dipropylene Glycol Monomethyl Ether
Oral LD50 (rat) >5000 mg/kg
Dermal LD5 (rabbit) >9510 mg/kg
Inhalation LC50 (rat) > 3.35 mg/l,7h, vapour, no deaths occurred at this concentration

Specific Target Organ Toxicity (STOT) – single exposure
Available data indicates this product is not expected to cause target organ effects after a single exposure.

Specific Target Organ Toxicity (STOT) – repeat exposure
Available data indicates this component not expected to cause target organ effects after repeated exposure.

Serious Eye damage/Irritation
Product: Primary irritant (rabbit) (tested on a similar product)
Sodium decyl sulfate: Severe eye irritant (based on similar material)
Alkylpolyglycoside: Severely irritating (rabbit) (50% solution)

Skin Corrosion/Irritation
Product: Not a primary irritant (rabbit) (tested on a similar product)

Respiratory or Skin Sensitization
Available data indicates this product is not expected to cause skin sensitization.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity
Available data indicates this product is is not expected to be mutagenic.

Reproductive Toxicity
Available data indicates this product is not expected to cause reproductive toxicity or birth defects.

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No relevant studies identified.

Mobility in soil
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bioaccumulative Potential
No relevant studies identified.

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
This product contains PFAS (per- or poly- fluoroalkyl substances). Local requirements for waste disposal may be more restrictive or otherwise different from national regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.
Concentrate
Prevent foam concentrate from entering ground water, surface water or storm drains. Small quantities of foam concentrate may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations. High temperature incineration is required at a minimum of 1000°C with a minimum residence time of 2 seconds per the United States Environmental Protection Agency's Significant New Use Rule for a component of this product. See 40 CFR721.10700.
Foam/Foam Solution
Prevent foam/foam solution from entering ground water, surface water or storm drains. Small quantities of foam solution may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations. High temperature incineration is required at a minimum of 1000°C with a minimum residence time of 2 seconds per the United States Environmental Protection Agency's Significant New Use Rule for a component of this product. See 40 CFR721.10700.
NOTE: Please consult National Foam for additional information regarding the disposal of foam concentrates and foam solutions or visit http://nationalfoam.com/use-discharge-and-disposal-of-firefighting-foam-products/

14. TRANSPORT INFORMATION

Shipping Information

Shipping Description	Fire Extinguisher Charges or Compounds N.O.I., Class 70
National Motor Freight Code	69160 Sub 0

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

15. REGULATORY INFORMATION

United States TSCA Inventory
This product contains ingredients that have restricted use under the EPA Toxic Substance Control Act and are subject to a Significant New Use Rule (40CFR721.10700 and 40CFR721.10727). This product may only be used as a fire fighting foam. Any other use of this product is strictly prohibited. Disposal of this product must be done by incineration at a minimum of 1000°C with a minimum residence time of 2 seconds.

Canada DSL Inventory
This product contains an ingredient that is not listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

SARA Title III Sect. 311/312 Categorization
Eye irritation

SARA Title III Sect. 313
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

California Proposition 65
WARNING: This product can expose you to chemicals including diethanolamine and formaldehyde, which are known to the State of California to cause cancer, and perfluorooctanoic acid and methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov/

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
None

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 0
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Chemical Abstracts Service Number
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RQ: Reportable Quantity
STEL: Short Term Exposure Limit
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RQ: Reportable Quantity

16. OTHER INFORMATION

Legend, continued
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: May 18, 2021
Replaces: November 20, 2020
Changes made: Updates to sections 2, 6 and 13 and 15.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

Universal Gold is a registered trademark of Angus International.

The information and recommendations presented in this SDS are based on sources believed to be accurate. National Foam assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

ASSURANCE
NATIONAL FOAM

Universal® Gold^{C6} 1%/3%

Alcohol Resistant Aqueous Film-Forming Foam

NFC420

- Designed for high risk facilities and large scale fires
- Suitable for use with fresh or sea water.
- Compatible with a wide range of proportioning and foam making devices.
- Suitable for use with foam compatible dry powder extinguishing agents.
- Listed for use on hydrocarbons at 1% or 3% proportioning.
- Listed for use on a wide variety of polar solvent fuels at 3% proportioning.
- Underwriters Laboratories, Inc.
- Underwriters Laboratories of Canada (ULC).
- United States Coast Guard (USCG) for 3% only.
- Formulated using 'C6' fluorosurfactant technology

Universal Gold^{C6} 1%/3% is an AR-AFFF concentrate with a special biosynthesized polymer. This polymer is designed to fulfill two functions. The first is to form a protective membrane between the fuel and the foam as it contacts the water-miscible fuel, making extinguishment possible. The second function is to make the foam more stable and heat-resistant, resulting in better burnback resistance and sealability compared to conventional AFFFs. The unique state-of-the-art Universal Gold^{C6} 1%/3% concentrate formulation is recognized by United States Patents 4,999,119 and 5,207,932.

Universal Gold^{C6} 1%/3% is used in fire suppression systems and manual applications to fight the broadest range of Class B fires. Its versatility simplifies the extinguishment of unknown Class B fuels. Typical applications include storage tanks, loading racks, docks, process areas, warehouses, spills, etc.

Typical Physical Properties

Appearance	Amber-Colored Viscous Liquid
Specific Gravity at 77°F(25°C)	1.03
pH	8.2
Viscosity	2,800 cP*
Freezing Point	26°F(-3°C)
Min Usable Temperature	35°F(2°C)
Max Usable Temperature	120°F(49°C)

**Brookfield #4 Spindle @ 60 rpm. Viscosity measured under different shear conditions will vary because of pseudoplastic rheology of this non-Newtonian product.*

Storage and Handling

Universal Gold^{C6} 1%/3% is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage. Recommended construction materials are stainless steel (Type 304L or 316), high density cross-linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50 -100 mils). Refer to National Foam Technical Bulletin NFTB100 for further information.

Universal Gold^{C6} 1%/3% foam concentrate is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment should be within the UL listed temperature range of 35°F to 120°F (2°C to 49°C). When product is stored in atmospheric storage tanks, contents must be covered with 1/4-inch (6.35mm) of National Foam Seal Oil to ensure prevention of air coming into contact with the foam concentrate. Use of Seal Oil is only recommended in stationary storage tanks. Refer to National Foam Technical Bulletin NFTB100 or National Foam product data sheet NFC950 for further information.

Universal® Gold^{C6} 1%/3%

Alcohol Resistant Aqueous Film-Forming Foam

It is recommended that Universal Gold^{C6} 1%/3% not be mixed with any other type of foam concentrate in long-term storage. Such mixing could lead to chemical changes in the product and a possible reduction in or loss of its firefighting capability. Most expanded foams are compatible for side-by-side application during an incident.

Shelf Life, Inspection, and Testing

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. National Foam firefighting foam concentrates have been tested and have not shown significant loss of performance even after 10 years or more, provided annual testing and proper storage recommendations are followed. Refer to National Foam technical bulletin NFTB240 for recommendations on foam concentrate storage and preservation.

Annual testing of all firefighting foams is recommended by the National Fire Protection Association (NFPA). National Foam provides a Technical Service Program to conduct such tests. Refer to National Foam product data sheet NFC960 for further details on Technical Service Program.

Environmental and Toxicological Information

As all 'C6' foams contain PFAS please refer to the product's Safety Data Sheet (SDS) and website for more information regarding the use, discharge and disposal of all firefighting foam products.

Prevent foam concentrate and foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Universal Gold^{C6} 1%/3% concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Universal Gold^{C6} 1%/3% has not been tested for acute oral toxicity, primary skin irritation or primary eye irritation. Repeated skin contact will remove oils from the skin and cause dryness. Universal Gold^{C6} 1%/3% is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Universal Gold^{C6} 1%/3% enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Universal Gold^{C6} 1%/3% Safety Data Sheet NMS420.

Universal® Gold^{C6} 1%/3%

Alcohol Resistant Aqueous Film-Forming Foam

Underwriters Laboratories-Listed Application Rates for Universal Gold^{C6} 1%/3%

Type III Application Rates

Fuel Group	Proportioning %	UL-Listed Rate gpm/ft² (lpm/m²)
Hydrocarbons	1%	0.16 (6.5)*
Hydrocarbons	3%	0.16 (6.5)*
MTBE/Gasoline Blends (up to 30% MTBE)	3%	0.15 (6.1)
Ethanol/Gasoline Blends (up to 15.6% ethanol)	3%	0.15 (6.1)
Biodiesel (methyl ester from lipid sources)	3%	0.10 (4.1)

Type II Application Rates

Fuel Group	Proportioning %	UL-Listed Rate gpm/ft² (lpm/m²)
Alcohols	3%	0.13 (5.3)
Ethanol	3%	0.10 (4.1)
Methanol	3%	0.10 (4.1)
Aldehydes	3%	0.24 (9.8)
Amines	3%	0.15 (6.1)
Carboxylic Acids	3%	0.15 (6.1)
Esters	3%	0.10 (4.1)
Ethers	3%	0.15 (6.1)
ETBE	3%	0.14 (5.7)
MTBE	3%	0.13 (5.3)
TAME	3%	0.13 (5.3)
Hydrocarbons	3%	0.10 (4.1)
Ketones	3%	0.16 (6.5)
Methyl Ethyl Ketone	3%	0.12 (4.9)
MTBE/Gasoline Blends (up to 17.5% MTBE)	3%	0.10 (4.1)
Biodiesel (ME) Methyl Ester from Lipid Sources	3%	0.10 (4.1)

For materials marked with an asterisk (*) , refer to NFPA 11 for additional design criteria.

Please refer to UL Fire Protection Online Certifications Directory for additional information on application rates and other discharge devices.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	45.5 lb. (20.6 kg)	1.13 cu. ft.^{3} (0.032 cu. m)	2130-7340-4
55-Gallon Drums (208 liters)	495 lb. (224.5 kg)	11.1 cu. ft.^{3} (0.314 cu. m)	2130-7481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2497 lb. (1132.6 kg)	48.2 cu. ft.^{3} (1.365 cu. m)	2130-7725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	2990 lb. (1356.3 kg)	55.8 cu. ft.^{3} (1.580 cu. m)	2130-7033-4
Bulk	8.59 lb./gal. (1.03 kg/l)		2130-7001-4

Universal® Gold^{C6} 1%/3%

Alcohol Resistant Aqueous Film-Forming Foam

National Foam
141 Junny Rd. Angier, NC 27501
Email: info@nationalfoam.com
www.nationalfoam.com

11/21 NFC420 (Rev V)

APPENDIX B

ANALYTICAL RESULTS

CHAIN-OF-CUSTODY FORMS

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66591-1
Client Project/Site: RETIA – Saukville, WI 341-020

For:
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Attn: Mr. Tim Petrick

Sandra Fredrick

Authorized for release by:
11/30/2020 12:02:51 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 320-66591-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-66591-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Receipt Exceptions
The following samples were received at the laboratory without a sample collection time documented on the chain of custody: PFAS-4 6-8' (320-66591-5), PFAS-3 4-6' (320-66591-6), PFAS-2 2-4' (320-66591-7), PFAS-1 3-4' (320-66591-8) and TB-Soil (320-66591-11). Sample #5, 6, 7, 8, & 11 (5/5) - no time was provided on the samples.

LCMS
Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit for d7-N-MeFOSE-M and d9-N-EtFOSE-M: PFAS-5 3-5' (320-66591-1), PFAS-8 6-8' (320-66591-2), PFAS-7 4-6' (320-66591-3), PFAS-6 5-7' (320-66591-4), (LCS 320-431089/2-A), (MB 320-431089/1-A), (320-66591-A-4-B MS) and (320-66591-A-4-C MSD). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples.

Method 537 (modified): The matrix spike duplicate (MSD) recovery for DONApreparation batch 320-431089 and analytical batch 320-434434 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The “I” qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. PFAS-1 3-4' (320-66591-8)

Method 537 (modified): d7-N-MeFOSE-M and d9-N-EtFOSE-M Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: PFAS-4 6-8' (320-66591-5) and (320-66591-A-5-D MSD). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

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

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-431329. 320-431329 3535_PFC Water

Method 3535: The following sample was received in a gallon cube: TB-Soil (320-66591-11). The sample was transfered into new 250 mL bottle. After transferring into a new container, the sample was fortified with IDA then extracted. 320-431329 3535_PFC Water

Method SHAKE: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: PFAS-4 6-8' (320-66591-5), (320-66591-A-5 MS) and (320-66591-A-5 MSD). The reporting limits (RLs) have been adjusted proportionately. PFC_IDA Solid preparation batch: 320-435321

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

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-5 3-5' — Lab Sample ID: 320-66591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.14	J B	0.21	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.033	J	0.21	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
NEtFOSE	0.067	J	0.21	0.038	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-8 6-8' — Lab Sample ID: 320-66591-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.11	J B	0.22	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.033	J	0.22	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
NEtFOSE	0.11	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-7 4-6' — Lab Sample ID: 320-66591-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.14	J B	0.22	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.12	J	0.22	0.085	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.065	J	0.22	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.22	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.055	J	0.22	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.067	J	0.22	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.25	J	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-6 5-7' — Lab Sample ID: 320-66591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.17	J B	0.22	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.14	J	0.22	0.084	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.099	J	0.22	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.083	J	0.22	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.10	J	0.22	0.094	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.42	J	0.55	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
6:2 FTS	0.78	J	2.2	0.16	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-4 6-8' — Lab Sample ID: 320-66591-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	0.079	J	0.43	0.062	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.81	J	1.1	0.43	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-3 4-6' — Lab Sample ID: 320-66591-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.14	J B	0.23	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.040	J	0.23	0.033	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.38	J	0.57	0.23	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: PFAS-2 2-4' — Lab Sample ID: 320-66591-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.16	J B	0.23	0.032	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.69		0.23	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.53	J	0.57	0.23	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-1 3-4' — Lab Sample ID: 320-66591-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.10	J B	0.24	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.13	J	0.24	0.10	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.053	J	0.24	0.024	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.8		0.24	0.038	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.9		0.24	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6	I	0.61	0.24	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: FB-1 — Lab Sample ID: 320-66591-9

No Detections.

Client Sample ID: EB-1 — Lab Sample ID: 320-66591-10

No Detections.

Client Sample ID: TB-Soil — Lab Sample ID: 320-66591-11

No Detections.

Client Sample ID: FB-2 — Lab Sample ID: 320-66591-12

No Detections.

Client Sample ID: EB-2 — Lab Sample ID: 320-66591-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-5 3-5'

Date Collected: 11/10/20 08:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-1

Matrix: Solid
Percent Solids: 86.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.14**	**J B**	0.21	0.030	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoropentanoic acid (PFPeA)	<0.082		0.21	0.082	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorohexanoic acid (PFHxA)	<0.045		0.21	0.045	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoroheptanoic acid (PFHpA)	**0.033**	**J**	0.21	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorooctanoic acid (PFOA)	<0.091		0.21	0.091	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorononanoic acid (PFNA)	<0.038		0.21	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorodecanoic acid (PFDA)	<0.023		0.21	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoroundecanoic acid (PFUnA)	<0.038		0.21	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorododecanoic acid (PFDoA)	<0.071		0.21	0.071	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorotridecanoic acid (PFTriA)	<0.054		0.21	0.054	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.057		0.21	0.057	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.047		0.21	0.047	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.030		0.21	0.030	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.027		0.21	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.021		0.21	0.021	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.21	0.033	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.037		0.21	0.037	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.21		0.53	0.21	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorononanesulfonic acid (PFNS)	<0.021		0.21	0.021	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.041		0.21	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.064		0.21	0.064	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
Perfluorooctanesulfonamide (FOSA)	<0.087		0.21	0.087	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
NEtFOSA	<0.026		0.21	0.026	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
NMeFOSA	<0.044		0.21	0.044	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.41		2.1	0.41	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.39		2.1	0.39	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
NMeFOSE	<0.076		0.21	0.076	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
NEtFOSE	**0.067**	**J**	0.21	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
4:2 FTS	<0.39		2.1	0.39	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
6:2 FTS	<0.16		2.1	0.16	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
8:2 FTS	<0.27		2.1	0.27	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
10:2 FTS	<0.053		0.21	0.053	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
DONA	<0.019		0.21	0.019	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
HFPO-DA (GenX)	<0.12		0.27	0.12	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
F-53B Major	<0.029		0.21	0.029	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1
F-53B Minor	<0.023		0.21	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 07:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C2 PFHxA	*92*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C4 PFHpA	*93*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C4 PFOA	*93*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C5 PFNA	*95*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*
13C2 PFDA	*95*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:10*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-5 3-5'
Date Collected: 11/10/20 08:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-1
Matrix: Solid
Percent Solids: 86.4

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	98		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C2 PFDoA	94		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C2 PFTeDA	99		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C2 PFHxDA	102		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C3 PFBS	75		25 - 150	11/12/20 13:42	11/22/20 07:10	1
18O2 PFHxS	73		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C4 PFOS	72		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C8 FOSA	91		25 - 150	11/12/20 13:42	11/22/20 07:10	1
d3-NMeFOSAA	106		25 - 150	11/12/20 13:42	11/22/20 07:10	1
d5-NEtFOSAA	117		25 - 150	11/12/20 13:42	11/22/20 07:10	1
d-N-MeFOSA-M	52		25 - 150	11/12/20 13:42	11/22/20 07:10	1
d-N-EtFOSA-M	50		25 - 150	11/12/20 13:42	11/22/20 07:10	1
d7-N-MeFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 07:10	1
d9-N-EtFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 07:10	1
M2-4:2 FTS	69		25 - 150	11/12/20 13:42	11/22/20 07:10	1
M2-6:2 FTS	65		25 - 150	11/12/20 13:42	11/22/20 07:10	1
M2-8:2 FTS	61		25 - 150	11/12/20 13:42	11/22/20 07:10	1
13C3 HFPO-DA	84		25 - 150	11/12/20 13:42	11/22/20 07:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	86.4		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-8 6-8'

Date Collected: 11/10/20 08:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-2

Matrix: Solid
Percent Solids: 86.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.11**	**J B**	0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoropentanoic acid (PFPeA)	<0.085		0.22	0.085	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorohexanoic acid (PFHxA)	<0.047		0.22	0.047	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoroheptanoic acid (PFHpA)	**0.033**	**J**	0.22	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorooctanoic acid (PFOA)	<0.095		0.22	0.095	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorononanoic acid (PFNA)	<0.040		0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorodecanoic acid (PFDA)	<0.024		0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoroundecanoic acid (PFUnA)	<0.040		0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorododecanoic acid (PFDoA)	<0.074		0.22	0.074	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorotridecanoic acid (PFTriA)	<0.057		0.22	0.057	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.060		0.22	0.060	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.049		0.22	0.049	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.031		0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.028		0.22	0.028	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoropentanesulfonic acid (PFPeS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.034		0.22	0.034	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.039		0.22	0.039	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.22		0.55	0.22	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorononanesulfonic acid (PFNS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.043		0.22	0.043	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.067		0.22	0.067	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
Perfluorooctanesulfonamide (FOSA)	<0.091		0.22	0.091	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
NEtFOSA	<0.027		0.22	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
NMeFOSA	<0.045		0.22	0.045	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.43		2.2	0.43	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.2	0.41	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
NMeFOSE	<0.079		0.22	0.079	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
NEtFOSE	**0.11**	**J**	0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
4:2 FTS	<0.41		2.2	0.41	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
6:2 FTS	<0.17		2.2	0.17	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
8:2 FTS	<0.28		2.2	0.28	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
DONA	<0.020		0.22	0.020	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
HFPO-DA (GenX)	<0.12		0.28	0.12	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
F-53B Major	<0.030		0.22	0.030	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1
F-53B Minor	<0.024		0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C5 PFPeA	*83*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C2 PFHxA	*86*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C4 PFHpA	*95*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C4 PFOA	*90*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C5 PFNA	*86*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*
13C2 PFDA	*95*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:19*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-8 6-8'
Date Collected: 11/10/20 08:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-2
Matrix: Solid
Percent Solids: 86.4

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	88		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C2 PFDoA	88		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C2 PFTeDA	92		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C2 PFHxDA	93		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C3 PFBS	66		25 - 150	11/12/20 13:42	11/22/20 07:19	1
18O2 PFHxS	66		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C4 PFOS	66		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C8 FOSA	84		25 - 150	11/12/20 13:42	11/22/20 07:19	1
d3-NMeFOSAA	81		25 - 150	11/12/20 13:42	11/22/20 07:19	1
d5-NEtFOSAA	96		25 - 150	11/12/20 13:42	11/22/20 07:19	1
d-N-MeFOSA-M	47		25 - 150	11/12/20 13:42	11/22/20 07:19	1
d-N-EtFOSA-M	46		25 - 150	11/12/20 13:42	11/22/20 07:19	1
d7-N-MeFOSE-M	5	*5	10 - 120	11/12/20 13:42	11/22/20 07:19	1
d9-N-EtFOSE-M	6	*5	10 - 120	11/12/20 13:42	11/22/20 07:19	1
M2-4:2 FTS	41		25 - 150	11/12/20 13:42	11/22/20 07:19	1
M2-6:2 FTS	44		25 - 150	11/12/20 13:42	11/22/20 07:19	1
M2-8:2 FTS	43		25 - 150	11/12/20 13:42	11/22/20 07:19	1
13C3 HFPO-DA	84		25 - 150	11/12/20 13:42	11/22/20 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	86.4		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-7 4-6'
Date Collected: 11/10/20 09:20
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-3
Matrix: Solid
Percent Solids: 88.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.14**	**J B**	0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoropentanoic acid (PFPeA)	**0.12**	**J**	0.22	0.085	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorohexanoic acid (PFHxA)	**0.065**	**J**	0.22	0.046	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoroheptanoic acid (PFHpA)	**0.11**	**J**	0.22	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorooctanoic acid (PFOA)	<0.094		0.22	0.094	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorononanoic acid (PFNA)	**0.055**	**J**	0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorodecanoic acid (PFDA)	**0.067**	**J**	0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoroundecanoic acid (PFUnA)	<0.040		0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorododecanoic acid (PFDoA)	<0.074		0.22	0.074	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorotridecanoic acid (PFTriA)	<0.056		0.22	0.056	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.059		0.22	0.059	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.048		0.22	0.048	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.031		0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.027		0.22	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.034		0.22	0.034	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.038		0.22	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorooctanesulfonic acid (PFOS)	**0.25**	**J**	0.55	0.22	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorononanesulfonic acid (PFNS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.043		0.22	0.043	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.066		0.22	0.066	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
Perfluorooctanesulfonamide (FOSA)	<0.090		0.22	0.090	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
NEtFOSA	<0.026		0.22	0.026	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
NMeFOSA	<0.045		0.22	0.045	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.43		2.2	0.43	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.2	0.41	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
NMeFOSE	<0.078		0.22	0.078	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
NEtFOSE	<0.040		0.22	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
4:2 FTS	<0.41		2.2	0.41	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
6:2 FTS	<0.16		2.2	0.16	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
8:2 FTS	<0.27		2.2	0.27	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
DONA	<0.020		0.22	0.020	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
HFPO-DA (GenX)	<0.12		0.27	0.12	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
F-53B Major	<0.030		0.22	0.030	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1
F-53B Minor	<0.024		0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*
13C2 PFHxA	*88*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*
13C4 PFHpA	*94*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*
13C4 PFOA	*90*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*
13C5 PFNA	*90*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:28*	*1*

Client Sample ID: PFAS-7 4-6'
Date Collected: 11/10/20 09:20
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-3
Matrix: Solid
Percent Solids: 88.0

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	88		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C2 PFUnA	88		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C2 PFDoA	88		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C2 PFTeDA	94		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C2 PFHxDA	98		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C3 PFBS	67		25 - 150	11/12/20 13:42	11/22/20 07:28	1
18O2 PFHxS	67		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C4 PFOS	66		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C8 FOSA	85		25 - 150	11/12/20 13:42	11/22/20 07:28	1
d3-NMeFOSAA	76		25 - 150	11/12/20 13:42	11/22/20 07:28	1
d5-NEtFOSAA	90		25 - 150	11/12/20 13:42	11/22/20 07:28	1
d-N-MeFOSA-M	45		25 - 150	11/12/20 13:42	11/22/20 07:28	1
d-N-EtFOSA-M	45		25 - 150	11/12/20 13:42	11/22/20 07:28	1
d7-N-MeFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 07:28	1
d9-N-EtFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 07:28	1
M2-4:2 FTS	40		25 - 150	11/12/20 13:42	11/22/20 07:28	1
M2-6:2 FTS	43		25 - 150	11/12/20 13:42	11/22/20 07:28	1
M2-8:2 FTS	41		25 - 150	11/12/20 13:42	11/22/20 07:28	1
13C3 HFPO-DA	85		25 - 150	11/12/20 13:42	11/22/20 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	88.0		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-6 5-7'
Date Collected: 11/10/20 09:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-4
Matrix: Solid
Percent Solids: 87.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.17**	**J B**	0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoropentanoic acid (PFPeA)	**0.14**	**J**	0.22	0.084	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorohexanoic acid (PFHxA)	**0.099**	**J**	0.22	0.046	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoroheptanoic acid (PFHpA)	**0.083**	**J**	0.22	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorooctanoic acid (PFOA)	**0.10**	**J**	0.22	0.094	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorononanoic acid (PFNA)	<0.039		0.22	0.039	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorodecanoic acid (PFDA)	<0.024		0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoroundecanoic acid (PFUnA)	<0.039		0.22	0.039	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorododecanoic acid (PFDoA)	<0.073		0.22	0.073	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorotridecanoic acid (PFTriA)	<0.056		0.22	0.056	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.059		0.22	0.059	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.048		0.22	0.048	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.031		0.22	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.027		0.22	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.034		0.22	0.034	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.038		0.22	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorooctanesulfonic acid (PFOS)	**0.42**	**J**	0.55	0.22	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorononanesulfonic acid (PFNS)	<0.022		0.22	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.043		0.22	0.043	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.065		0.22	0.065	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
Perfluorooctanesulfonamide (FOSA)	<0.089		0.22	0.089	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
NEtFOSA	<0.026		0.22	0.026	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
NMeFOSA	<0.045		0.22	0.045	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.43		2.2	0.43	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.40		2.2	0.40	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
NMeFOSE	<0.077		0.22	0.077	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
NEtFOSE	<0.039		0.22	0.039	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
4:2 FTS	<0.40		2.2	0.40	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
6:2 FTS	**0.78**	**J**	2.2	0.16	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
8:2 FTS	<0.27		2.2	0.27	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
DONA	<0.020	F1	0.22	0.020	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
HFPO-DA (GenX)	<0.12		0.27	0.12	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
F-53B Major	<0.029		0.22	0.029	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1
F-53B Minor	<0.024		0.22	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 07:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*
13C5 PFPeA	*86*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*
13C2 PFHxA	*91*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*
13C4 PFHpA	*100*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*
13C4 PFOA	*91*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*
13C5 PFNA	*92*		*25 - 150*	*11/12/20 13:42*	*11/22/20 07:38*	*1*

Client Sample ID: PFAS-6 5-7'
Date Collected: 11/10/20 09:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-4
Matrix: Solid
Percent Solids: 87.5

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	92		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C2 PFUnA	92		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C2 PFDoA	93		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C2 PFTeDA	98		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C2 PFHxDA	100		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C3 PFBS	73		25 - 150	11/12/20 13:42	11/22/20 07:38	1
18O2 PFHxS	73		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C4 PFOS	72		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C8 FOSA	92		25 - 150	11/12/20 13:42	11/22/20 07:38	1
d3-NMeFOSAA	81		25 - 150	11/12/20 13:42	11/22/20 07:38	1
d5-NEtFOSAA	93		25 - 150	11/12/20 13:42	11/22/20 07:38	1
d-N-MeFOSA-M	45		25 - 150	11/12/20 13:42	11/22/20 07:38	1
d-N-EtFOSA-M	45		25 - 150	11/12/20 13:42	11/22/20 07:38	1
d7-N-MeFOSE-M	6	*5	10 - 120	11/12/20 13:42	11/22/20 07:38	1
d9-N-EtFOSE-M	6	*5	10 - 120	11/12/20 13:42	11/22/20 07:38	1
M2-4:2 FTS	41		25 - 150	11/12/20 13:42	11/22/20 07:38	1
M2-6:2 FTS	48		25 - 150	11/12/20 13:42	11/22/20 07:38	1
M2-8:2 FTS	46		25 - 150	11/12/20 13:42	11/22/20 07:38	1
13C3 HFPO-DA	87		25 - 150	11/12/20 13:42	11/22/20 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	87.5		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-4 6-8'
Date Collected: 11/10/20 10:05
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-5
Matrix: Solid
Percent Solids: 84.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.060		0.43	0.060	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoropentanoic acid (PFPeA)	<0.16		0.43	0.16	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorohexanoic acid (PFHxA)	<0.090		0.43	0.090	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoroheptanoic acid (PFHpA)	**0.079**	**J**	0.43	0.062	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorooctanoic acid (PFOA)	<0.18		0.43	0.18	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorononanoic acid (PFNA)	<0.077		0.43	0.077	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorodecanoic acid (PFDA)	<0.047		0.43	0.047	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoroundecanoic acid (PFUnA)	<0.077		0.43	0.077	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorododecanoic acid (PFDoA)	<0.14		0.43	0.14	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorotridecanoic acid (PFTriA)	<0.11		0.43	0.11	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.12		0.43	0.12	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.094		0.43	0.094	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.060		0.43	0.060	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.053		0.43	0.053	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.043		0.43	0.043	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.066		0.43	0.066	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.075		0.43	0.075	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorooctanesulfonic acid (PFOS)	**0.81**	**J**	1.1	0.43	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorononanesulfonic acid (PFNS)	<0.043		0.43	0.043	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.083		0.43	0.083	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.13		0.43	0.13	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
Perfluorooctanesulfonamide (FOSA)	<0.18		0.43	0.18	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
NEtFOSA	<0.051		0.43	0.051	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
NMeFOSA	<0.088		0.43	0.088	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.83		4.3	0.83	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.79		4.3	0.79	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
NMeFOSE	<0.15		0.43	0.15	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
NEtFOSE	<0.077		0.43	0.077	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
4:2 FTS	<0.79		4.3	0.79	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
6:2 FTS	<0.32		4.3	0.32	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
8:2 FTS	<0.53		4.3	0.53	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
10:2 FTS	<0.11		0.43	0.11	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
DONA	<0.038		0.43	0.038	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
HFPO-DA (GenX)	<0.24		0.53	0.24	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
F-53B Major	<0.058		0.43	0.058	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1
F-53B Minor	<0.047		0.43	0.047	ug/Kg	☼	11/24/20 19:24	11/27/20 16:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*
13C5 PFPeA	*89*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*
13C2 PFHxA	*93*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*
13C4 PFHpA	*97*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*
13C4 PFOA	*99*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*
13C5 PFNA	*94*		*25 - 150*	*11/24/20 19:24*	*11/27/20 16:27*	*1*

Client Sample ID: PFAS-4 6-8'
Date Collected: 11/10/20 10:05
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-5
Matrix: Solid
Percent Solids: 84.8

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C2 PFUnA	100		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C2 PFDoA	107		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C2 PFTeDA	105		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C2 PFHxDA	96		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C3 PFBS	76		25 - 150	11/24/20 19:24	11/27/20 16:27	1
18O2 PFHxS	82		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C4 PFOS	81		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C8 FOSA	87		25 - 150	11/24/20 19:24	11/27/20 16:27	1
d3-NMeFOSAA	62		25 - 150	11/24/20 19:24	11/27/20 16:27	1
d5-NEtFOSAA	71		25 - 150	11/24/20 19:24	11/27/20 16:27	1
d-N-MeFOSA-M	50		25 - 150	11/24/20 19:24	11/27/20 16:27	1
d-N-EtFOSA-M	44		25 - 150	11/24/20 19:24	11/27/20 16:27	1
d7-N-MeFOSE-M	6	*5	10 - 120	11/24/20 19:24	11/27/20 16:27	1
d9-N-EtFOSE-M	6	*5	10 - 120	11/24/20 19:24	11/27/20 16:27	1
M2-4:2 FTS	76		25 - 150	11/24/20 19:24	11/27/20 16:27	1
M2-6:2 FTS	82		25 - 150	11/24/20 19:24	11/27/20 16:27	1
M2-8:2 FTS	82		25 - 150	11/24/20 19:24	11/27/20 16:27	1
13C3 HFPO-DA	92		25 - 150	11/24/20 19:24	11/27/20 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	84.8		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-3 4-6'
Date Collected: 11/10/20 10:25
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-6
Matrix: Solid
Percent Solids: 85.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.14**	**J B**	0.23	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoropentanoic acid (PFPeA)	<0.087		0.23	0.087	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorohexanoic acid (PFHxA)	<0.048		0.23	0.048	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoroheptanoic acid (PFHpA)	**0.040**	**J**	0.23	0.033	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorooctanoic acid (PFOA)	<0.098		0.23	0.098	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorononanoic acid (PFNA)	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorodecanoic acid (PFDA)	<0.025		0.23	0.025	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoroundecanoic acid (PFUnA)	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorododecanoic acid (PFDoA)	<0.076		0.23	0.076	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorotridecanoic acid (PFTriA)	<0.058		0.23	0.058	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.061		0.23	0.061	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.050		0.23	0.050	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.032		0.23	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.028		0.23	0.028	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.023		0.23	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.035		0.23	0.035	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.040		0.23	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorooctanesulfonic acid (PFOS)	**0.38**	**J**	0.57	0.23	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorononanesulfonic acid (PFNS)	<0.023		0.23	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.044		0.23	0.044	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.068		0.23	0.068	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
Perfluorooctanesulfonamide (FOSA)	<0.093		0.23	0.093	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
NEtFOSA	<0.027		0.23	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
NMeFOSA	<0.047		0.23	0.047	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.44		2.3	0.44	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.3	0.42	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
NMeFOSE	<0.081		0.23	0.081	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
NEtFOSE	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
4:2 FTS	<0.42		2.3	0.42	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
6:2 FTS	<0.17		2.3	0.17	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
8:2 FTS	<0.28		2.3	0.28	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
10:2 FTS	<0.057		0.23	0.057	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
DONA	<0.020		0.23	0.020	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
HFPO-DA (GenX)	<0.12		0.28	0.12	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
F-53B Major	<0.031		0.23	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1
F-53B Minor	<0.025		0.23	0.025	ug/Kg	☼	11/12/20 13:42	11/22/20 08:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*
13C5 PFPeA	*85*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*
13C2 PFHxA	*88*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*
13C4 PFHpA	*92*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*
13C4 PFOA	*90*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*
13C5 PFNA	*88*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:34*	*1*

Client Sample ID: PFAS-3 4-6'
Date Collected: 11/10/20 10:25
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-6
Matrix: Solid
Percent Solids: 85.9

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	90		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C2 PFUnA	88		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C2 PFDoA	88		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C2 PFTeDA	92		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C2 PFHxDA	90		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C3 PFBS	66		25 - 150	11/12/20 13:42	11/22/20 08:34	1
18O2 PFHxS	66		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C4 PFOS	66		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C8 FOSA	84		25 - 150	11/12/20 13:42	11/22/20 08:34	1
d3-NMeFOSAA	68		25 - 150	11/12/20 13:42	11/22/20 08:34	1
d5-NEtFOSAA	86		25 - 150	11/12/20 13:42	11/22/20 08:34	1
d-N-MeFOSA-M	60		25 - 150	11/12/20 13:42	11/22/20 08:34	1
d-N-EtFOSA-M	57		25 - 150	11/12/20 13:42	11/22/20 08:34	1
d7-N-MeFOSE-M	11		10 - 120	11/12/20 13:42	11/22/20 08:34	1
d9-N-EtFOSE-M	11		10 - 120	11/12/20 13:42	11/22/20 08:34	1
M2-4:2 FTS	38		25 - 150	11/12/20 13:42	11/22/20 08:34	1
M2-6:2 FTS	39		25 - 150	11/12/20 13:42	11/22/20 08:34	1
M2-8:2 FTS	37		25 - 150	11/12/20 13:42	11/22/20 08:34	1
13C3 HFPO-DA	86		25 - 150	11/12/20 13:42	11/22/20 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	85.9		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-2 2-4'
Date Collected: 11/10/20 10:40
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-7
Matrix: Solid
Percent Solids: 85.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.16**	**J B**	0.23	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoropentanoic acid (PFPeA)	<0.089		0.23	0.089	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorohexanoic acid (PFHxA)	<0.048		0.23	0.048	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoroheptanoic acid (PFHpA)	<0.033		0.23	0.033	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorooctanoic acid (PFOA)	<0.099		0.23	0.099	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorononanoic acid (PFNA)	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorodecanoic acid (PFDA)	<0.025		0.23	0.025	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoroundecanoic acid (PFUnA)	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorododecanoic acid (PFDoA)	<0.077		0.23	0.077	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorotridecanoic acid (PFTriA)	<0.059		0.23	0.059	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.062		0.23	0.062	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.051		0.23	0.051	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.032		0.23	0.032	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.029		0.23	0.029	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.023		0.23	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorohexanesulfonic acid (PFHxS)	**0.69**		0.23	0.036	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.040		0.23	0.040	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorooctanesulfonic acid (PFOS)	**0.53**	**J**	0.57	0.23	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorononanesulfonic acid (PFNS)	<0.023		0.23	0.023	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.045		0.23	0.045	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.069		0.23	0.069	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
Perfluorooctanesulfonamide (FOSA)	<0.094		0.23	0.094	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
NEtFOSA	<0.028		0.23	0.028	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
NMeFOSA	<0.047		0.23	0.047	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.45		2.3	0.45	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.43		2.3	0.43	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
NMeFOSE	<0.082		0.23	0.082	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
NEtFOSE	<0.041		0.23	0.041	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
4:2 FTS	<0.43		2.3	0.43	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
6:2 FTS	<0.17		2.3	0.17	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
8:2 FTS	<0.29		2.3	0.29	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
10:2 FTS	<0.057		0.23	0.057	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
DONA	<0.021		0.23	0.021	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
HFPO-DA (GenX)	<0.13		0.29	0.13	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
F-53B Major	<0.031		0.23	0.031	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1
F-53B Minor	<0.025		0.23	0.025	ug/Kg	☼	11/12/20 13:42	11/22/20 08:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*74*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:43*	*1*
13C5 PFPeA	*76*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:43*	*1*
13C2 PFHxA	*82*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:43*	*1*
13C4 PFHpA	*88*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:43*	*1*
13C4 PFOA	*83*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:43*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-2 2-4'
Date Collected: 11/10/20 10:40
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-7
Matrix: Solid
Percent Solids: 85.3

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	87		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C2 PFDA	87		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C2 PFUnA	87		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C2 PFDoA	84		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C2 PFTeDA	89		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C2 PFHxDA	98		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C3 PFBS	63		25 - 150	11/12/20 13:42	11/22/20 08:43	1
18O2 PFHxS	60		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C4 PFOS	60		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C8 FOSA	84		25 - 150	11/12/20 13:42	11/22/20 08:43	1
d3-NMeFOSAA	84		25 - 150	11/12/20 13:42	11/22/20 08:43	1
d5-NEtFOSAA	96		25 - 150	11/12/20 13:42	11/22/20 08:43	1
d-N-MeFOSA-M	44		25 - 150	11/12/20 13:42	11/22/20 08:43	1
d-N-EtFOSA-M	38		25 - 150	11/12/20 13:42	11/22/20 08:43	1
d7-N-MeFOSE-M	25		10 - 120	11/12/20 13:42	11/22/20 08:43	1
d9-N-EtFOSE-M	23		10 - 120	11/12/20 13:42	11/22/20 08:43	1
M2-4:2 FTS	69		25 - 150	11/12/20 13:42	11/22/20 08:43	1
M2-6:2 FTS	48		25 - 150	11/12/20 13:42	11/22/20 08:43	1
M2-8:2 FTS	51		25 - 150	11/12/20 13:42	11/22/20 08:43	1
13C3 HFPO-DA	76		25 - 150	11/12/20 13:42	11/22/20 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	85.3		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-1 3-4'
Date Collected: 11/10/20 11:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-8
Matrix: Solid
Percent Solids: 81.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.10**	**J B**	0.24	0.034	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoropentanoic acid (PFPeA)	<0.094		0.24	0.094	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorohexanoic acid (PFHxA)	<0.051		0.24	0.051	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoroheptanoic acid (PFHpA)	<0.035		0.24	0.035	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorooctanoic acid (PFOA)	**0.13**	**J**	0.24	0.10	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorononanoic acid (PFNA)	<0.044		0.24	0.044	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorodecanoic acid (PFDA)	<0.027		0.24	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoroundecanoic acid (PFUnA)	<0.044		0.24	0.044	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorododecanoic acid (PFDoA)	<0.081		0.24	0.081	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorotridecanoic acid (PFTriA)	<0.062		0.24	0.062	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.066		0.24	0.066	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.054		0.24	0.054	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.034		0.24	0.034	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.030		0.24	0.030	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoropentanesulfonic acid (PFPeS)	**0.053**	**J**	0.24	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorohexanesulfonic acid (PFHxS)	**1.8**		0.24	0.038	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	**1.9**		0.24	0.043	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorooctanesulfonic acid (PFOS)	**2.6**	**I**	0.61	0.24	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorononanesulfonic acid (PFNS)	<0.024		0.24	0.024	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.047		0.24	0.047	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.073		0.24	0.073	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
Perfluorooctanesulfonamide (FOSA)	<0.10		0.24	0.10	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
NEtFOSA	<0.029		0.24	0.029	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
NMeFOSA	<0.050		0.24	0.050	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.47		2.4	0.47	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.45		2.4	0.45	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
NMeFOSE	<0.086		0.24	0.086	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
NEtFOSE	<0.044		0.24	0.044	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
4:2 FTS	<0.45		2.4	0.45	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
6:2 FTS	<0.18		2.4	0.18	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
8:2 FTS	<0.30		2.4	0.30	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
10:2 FTS	<0.061		0.24	0.061	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
DONA	<0.022		0.24	0.022	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
HFPO-DA (GenX)	<0.13		0.30	0.13	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
F-53B Major	<0.033		0.24	0.033	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1
F-53B Minor	<0.027		0.24	0.027	ug/Kg	☼	11/12/20 13:42	11/22/20 08:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:52*	*1*
13C5 PFPeA	*72*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:52*	*1*
13C2 PFHxA	*81*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:52*	*1*
13C4 PFHpA	*82*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:52*	*1*
13C4 PFOA	*81*		*25 - 150*	*11/12/20 13:42*	*11/22/20 08:52*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-1 3-4'
Date Collected: 11/10/20 11:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-8
Matrix: Solid
Percent Solids: 81.1

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	84		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C2 PFDA	80		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C2 PFUnA	81		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C2 PFDoA	83		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C2 PFTeDA	86		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C2 PFHxDA	85		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C3 PFBS	60		25 - 150	11/12/20 13:42	11/22/20 08:52	1
18O2 PFHxS	56		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C4 PFOS	57		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C8 FOSA	73		25 - 150	11/12/20 13:42	11/22/20 08:52	1
d3-NMeFOSAA	82		25 - 150	11/12/20 13:42	11/22/20 08:52	1
d5-NEtFOSAA	91		25 - 150	11/12/20 13:42	11/22/20 08:52	1
d-N-MeFOSA-M	27		25 - 150	11/12/20 13:42	11/22/20 08:52	1
d-N-EtFOSA-M	26		25 - 150	11/12/20 13:42	11/22/20 08:52	1
d7-N-MeFOSE-M	13		10 - 120	11/12/20 13:42	11/22/20 08:52	1
d9-N-EtFOSE-M	11		10 - 120	11/12/20 13:42	11/22/20 08:52	1
M2-4:2 FTS	69		25 - 150	11/12/20 13:42	11/22/20 08:52	1
M2-6:2 FTS	51		25 - 150	11/12/20 13:42	11/22/20 08:52	1
M2-8:2 FTS	50		25 - 150	11/12/20 13:42	11/22/20 08:52	1
13C3 HFPO-DA	74		25 - 150	11/12/20 13:42	11/22/20 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		0.1	0.1	%			11/12/20 11:10	1
Percent Solids	81.1		0.1	0.1	%			11/12/20 11:10	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: FB-1

Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-9

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.9	0.82	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		11/13/20 05:03	11/14/20 00:50	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		11/13/20 05:03	11/14/20 00:50	1
NEtFOSA	<0.81		1.9	0.81	ng/L		11/13/20 05:03	11/14/20 00:50	1
NMeFOSA	<0.40		1.9	0.40	ng/L		11/13/20 05:03	11/14/20 00:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/13/20 05:03	11/14/20 00:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/13/20 05:03	11/14/20 00:50	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/13/20 05:03	11/14/20 00:50	1
NEtFOSE	<0.79		1.9	0.79	ng/L		11/13/20 05:03	11/14/20 00:50	1
4:2 FTS	<0.22		1.9	0.22	ng/L		11/13/20 05:03	11/14/20 00:50	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/13/20 05:03	11/14/20 00:50	1
8:2 FTS	<0.43		1.9	0.43	ng/L		11/13/20 05:03	11/14/20 00:50	1
10:2 FTS	<0.62		1.9	0.62	ng/L		11/13/20 05:03	11/14/20 00:50	1
DONA	<0.37		1.9	0.37	ng/L		11/13/20 05:03	11/14/20 00:50	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/13/20 05:03	11/14/20 00:50	1
F-53B Major	<0.22		1.9	0.22	ng/L		11/13/20 05:03	11/14/20 00:50	1
F-53B Minor	<0.30		1.9	0.30	ng/L		11/13/20 05:03	11/14/20 00:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C5 PFPeA	*106*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C2 PFHxA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C4 PFHpA	*98*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C4 PFOA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C5 PFNA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*
13C2 PFDA	*94*		*25 - 150*	*11/13/20 05:03*	*11/14/20 00:50*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: FB-1
Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-9
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	89		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C2 PFDoA	87		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C2 PFTeDA	85		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C2 PFHxDA	86		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C3 PFBS	101		25 - 150	11/13/20 05:03	11/14/20 00:50	1
18O2 PFHxS	101		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C4 PFOS	108		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C8 FOSA	107		25 - 150	11/13/20 05:03	11/14/20 00:50	1
d3-NMeFOSAA	64		25 - 150	11/13/20 05:03	11/14/20 00:50	1
d5-NEtFOSAA	71		25 - 150	11/13/20 05:03	11/14/20 00:50	1
d-N-MeFOSA-M	77		20 - 150	11/13/20 05:03	11/14/20 00:50	1
d-N-EtFOSA-M	56		20 - 150	11/13/20 05:03	11/14/20 00:50	1
d7-N-MeFOSE-M	26		10 - 120	11/13/20 05:03	11/14/20 00:50	1
d9-N-EtFOSE-M	22		10 - 120	11/13/20 05:03	11/14/20 00:50	1
M2-4:2 FTS	83		25 - 150	11/13/20 05:03	11/14/20 00:50	1
M2-6:2 FTS	94		25 - 150	11/13/20 05:03	11/14/20 00:50	1
M2-8:2 FTS	99		25 - 150	11/13/20 05:03	11/14/20 00:50	1
13C3 HFPO-DA	92		25 - 150	11/13/20 05:03	11/14/20 00:50	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: EB-1

Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-10

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		11/13/20 05:03	11/14/20 01:17	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		11/13/20 05:03	11/14/20 01:17	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/13/20 05:03	11/14/20 01:17	1
NMeFOSA	<0.40		1.8	0.40	ng/L		11/13/20 05:03	11/14/20 01:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/13/20 05:03	11/14/20 01:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/13/20 05:03	11/14/20 01:17	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/13/20 05:03	11/14/20 01:17	1
NEtFOSE	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:17	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:17	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/13/20 05:03	11/14/20 01:17	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/13/20 05:03	11/14/20 01:17	1
10:2 FTS	<0.62		1.8	0.62	ng/L		11/13/20 05:03	11/14/20 01:17	1
DONA	<0.37		1.8	0.37	ng/L		11/13/20 05:03	11/14/20 01:17	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/13/20 05:03	11/14/20 01:17	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:17	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C5 PFPeA	*101*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C2 PFHxA	*94*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C4 PFHpA	*94*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C4 PFOA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C5 PFNA	*92*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*
13C2 PFDA	*91*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:17*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: EB-1
Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-10
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	92		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C2 PFDoA	87		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C2 PFTeDA	83		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C2 PFHxDA	86		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C3 PFBS	97		25 - 150	11/13/20 05:03	11/14/20 01:17	1
18O2 PFHxS	96		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C4 PFOS	98		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C8 FOSA	99		25 - 150	11/13/20 05:03	11/14/20 01:17	1
d3-NMeFOSAA	62		25 - 150	11/13/20 05:03	11/14/20 01:17	1
d5-NEtFOSAA	64		25 - 150	11/13/20 05:03	11/14/20 01:17	1
d-N-MeFOSA-M	71		20 - 150	11/13/20 05:03	11/14/20 01:17	1
d-N-EtFOSA-M	59		20 - 150	11/13/20 05:03	11/14/20 01:17	1
d7-N-MeFOSE-M	39		10 - 120	11/13/20 05:03	11/14/20 01:17	1
d9-N-EtFOSE-M	31		10 - 120	11/13/20 05:03	11/14/20 01:17	1
M2-4:2 FTS	80		25 - 150	11/13/20 05:03	11/14/20 01:17	1
M2-6:2 FTS	90		25 - 150	11/13/20 05:03	11/14/20 01:17	1
M2-8:2 FTS	100		25 - 150	11/13/20 05:03	11/14/20 01:17	1
13C3 HFPO-DA	87		25 - 150	11/13/20 05:03	11/14/20 01:17	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: TB-Soil

Date Collected: 11/10/20 00:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-11

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.8	0.54	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorooctanoic acid (PFOA)	<0.79		1.8	0.79	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.8	0.90	ng/L		11/13/20 05:03	11/14/20 01:27	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.8	0.91	ng/L		11/13/20 05:03	11/14/20 01:27	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/13/20 05:03	11/14/20 01:27	1
NMeFOSA	<0.40		1.8	0.40	ng/L		11/13/20 05:03	11/14/20 01:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/13/20 05:03	11/14/20 01:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/13/20 05:03	11/14/20 01:27	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/13/20 05:03	11/14/20 01:27	1
NEtFOSE	<0.79		1.8	0.79	ng/L		11/13/20 05:03	11/14/20 01:27	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:27	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/13/20 05:03	11/14/20 01:27	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/13/20 05:03	11/14/20 01:27	1
10:2 FTS	<0.62		1.8	0.62	ng/L		11/13/20 05:03	11/14/20 01:27	1
DONA	<0.37		1.8	0.37	ng/L		11/13/20 05:03	11/14/20 01:27	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/13/20 05:03	11/14/20 01:27	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:27	1
F-53B Minor	<0.30		1.8	0.30	ng/L		11/13/20 05:03	11/14/20 01:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C5 PFPeA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C2 PFHxA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C4 PFHpA	*94*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C4 PFOA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C5 PFNA	*94*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*
13C2 PFDA	*89*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:27*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: TB-Soil
Date Collected: 11/10/20 00:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-11
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	96		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C2 PFDoA	76		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C2 PFTeDA	81		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C2 PFHxDA	68		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C3 PFBS	95		25 - 150	11/13/20 05:03	11/14/20 01:27	1
18O2 PFHxS	96		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C4 PFOS	100		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C8 FOSA	101		25 - 150	11/13/20 05:03	11/14/20 01:27	1
d3-NMeFOSAA	59		25 - 150	11/13/20 05:03	11/14/20 01:27	1
d5-NEtFOSAA	60		25 - 150	11/13/20 05:03	11/14/20 01:27	1
d-N-MeFOSA-M	66		20 - 150	11/13/20 05:03	11/14/20 01:27	1
d-N-EtFOSA-M	53		20 - 150	11/13/20 05:03	11/14/20 01:27	1
d7-N-MeFOSE-M	31		10 - 120	11/13/20 05:03	11/14/20 01:27	1
d9-N-EtFOSE-M	25		10 - 120	11/13/20 05:03	11/14/20 01:27	1
M2-4:2 FTS	82		25 - 150	11/13/20 05:03	11/14/20 01:27	1
M2-6:2 FTS	91		25 - 150	11/13/20 05:03	11/14/20 01:27	1
M2-8:2 FTS	93		25 - 150	11/13/20 05:03	11/14/20 01:27	1
13C3 HFPO-DA	91		25 - 150	11/13/20 05:03	11/14/20 01:27	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: FB-2

Date Collected: 11/10/20 10:50
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-12

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		11/13/20 05:03	11/14/20 01:36	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		11/13/20 05:03	11/14/20 01:36	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/13/20 05:03	11/14/20 01:36	1
NMeFOSA	<0.40		1.8	0.40	ng/L		11/13/20 05:03	11/14/20 01:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/13/20 05:03	11/14/20 01:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/13/20 05:03	11/14/20 01:36	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/13/20 05:03	11/14/20 01:36	1
NEtFOSE	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:36	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:36	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/13/20 05:03	11/14/20 01:36	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/13/20 05:03	11/14/20 01:36	1
10:2 FTS	<0.62		1.8	0.62	ng/L		11/13/20 05:03	11/14/20 01:36	1
DONA	<0.37		1.8	0.37	ng/L		11/13/20 05:03	11/14/20 01:36	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/13/20 05:03	11/14/20 01:36	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:36	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C5 PFPeA	*101*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C2 PFHxA	*98*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C4 PFHpA	*92*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C4 PFOA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C5 PFNA	*97*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*
13C2 PFDA	*88*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:36*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: FB-2
Date Collected: 11/10/20 10:50
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-12
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	91		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C2 PFDoA	94		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C2 PFTeDA	89		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C2 PFHxDA	87		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C3 PFBS	97		25 - 150	11/13/20 05:03	11/14/20 01:36	1
18O2 PFHxS	100		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C4 PFOS	104		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C8 FOSA	104		25 - 150	11/13/20 05:03	11/14/20 01:36	1
d3-NMeFOSAA	65		25 - 150	11/13/20 05:03	11/14/20 01:36	1
d5-NEtFOSAA	66		25 - 150	11/13/20 05:03	11/14/20 01:36	1
d-N-MeFOSA-M	73		20 - 150	11/13/20 05:03	11/14/20 01:36	1
d-N-EtFOSA-M	54		20 - 150	11/13/20 05:03	11/14/20 01:36	1
d7-N-MeFOSE-M	31		10 - 120	11/13/20 05:03	11/14/20 01:36	1
d9-N-EtFOSE-M	24		10 - 120	11/13/20 05:03	11/14/20 01:36	1
M2-4:2 FTS	86		25 - 150	11/13/20 05:03	11/14/20 01:36	1
M2-6:2 FTS	94		25 - 150	11/13/20 05:03	11/14/20 01:36	1
M2-8:2 FTS	104		25 - 150	11/13/20 05:03	11/14/20 01:36	1
13C3 HFPO-DA	90		25 - 150	11/13/20 05:03	11/14/20 01:36	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: EB-2

Date Collected: 11/10/20 10:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-13

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		11/13/20 05:03	11/14/20 01:45	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		11/13/20 05:03	11/14/20 01:45	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/13/20 05:03	11/14/20 01:45	1
NMeFOSA	<0.40		1.8	0.40	ng/L		11/13/20 05:03	11/14/20 01:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/13/20 05:03	11/14/20 01:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/13/20 05:03	11/14/20 01:45	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/13/20 05:03	11/14/20 01:45	1
NEtFOSE	<0.78		1.8	0.78	ng/L		11/13/20 05:03	11/14/20 01:45	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:45	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/13/20 05:03	11/14/20 01:45	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/13/20 05:03	11/14/20 01:45	1
10:2 FTS	<0.62		1.8	0.62	ng/L		11/13/20 05:03	11/14/20 01:45	1
DONA	<0.37		1.8	0.37	ng/L		11/13/20 05:03	11/14/20 01:45	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/13/20 05:03	11/14/20 01:45	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/13/20 05:03	11/14/20 01:45	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/13/20 05:03	11/14/20 01:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C5 PFPeA	*100*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C2 PFHxA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C4 PFHpA	*96*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C4 PFOA	*101*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C5 PFNA	*97*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*
13C2 PFDA	*99*		*25 - 150*	*11/13/20 05:03*	*11/14/20 01:45*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: EB-2
Date Collected: 11/10/20 10:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-13
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	90		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C2 PFDoA	86		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C2 PFTeDA	91		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C2 PFHxDA	90		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C3 PFBS	100		25 - 150	11/13/20 05:03	11/14/20 01:45	1
18O2 PFHxS	103		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C4 PFOS	107		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C8 FOSA	110		25 - 150	11/13/20 05:03	11/14/20 01:45	1
d3-NMeFOSAA	69		25 - 150	11/13/20 05:03	11/14/20 01:45	1
d5-NEtFOSAA	72		25 - 150	11/13/20 05:03	11/14/20 01:45	1
d-N-MeFOSA-M	83		20 - 150	11/13/20 05:03	11/14/20 01:45	1
d-N-EtFOSA-M	62		20 - 150	11/13/20 05:03	11/14/20 01:45	1
d7-N-MeFOSE-M	34		10 - 120	11/13/20 05:03	11/14/20 01:45	1
d9-N-EtFOSE-M	29		10 - 120	11/13/20 05:03	11/14/20 01:45	1
M2-4:2 FTS	88		25 - 150	11/13/20 05:03	11/14/20 01:45	1
M2-6:2 FTS	101		25 - 150	11/13/20 05:03	11/14/20 01:45	1
M2-8:2 FTS	109		25 - 150	11/13/20 05:03	11/14/20 01:45	1
13C3 HFPO-DA	88		25 - 150	11/13/20 05:03	11/14/20 01:45	1

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66591-1	PFAS-5 3-5'	83	84	92	93	93	95	95	98
320-66591-2	PFAS-8 6-8'	81	83	86	95	90	86	95	88
320-66591-3	PFAS-7 4-6'	82	84	88	94	90	90	88	88
320-66591-4	PFAS-6 5-7'	85	86	91	100	91	92	92	92
320-66591-4 MS	PFAS-6 5-7'	84	85	93	99	93	91	94	92
320-66591-4 MSD	PFAS-6 5-7'	84	85	92	98	95	92	95	96
320-66591-5	PFAS-4 6-8'	89	89	93	97	99	94	101	100
320-66591-5 MS	PFAS-4 6-8'	92	92	95	103	105	103	103	101
320-66591-5 MSD	PFAS-4 6-8'	92	87	93	101	102	104	97	100
320-66591-6	PFAS-3 4-6'	82	85	88	92	90	88	90	88
320-66591-7	PFAS-2 2-4'	74	76	82	88	83	87	87	87
320-66591-8	PFAS-1 3-4'	71	72	81	82	81	84	80	81
LCS 320-431089/2-A	Lab Control Sample	88	90	95	100	96	97	93	96
LCS 320-435321/2-A	Lab Control Sample	91	84	96	100	108	100	102	99
MB 320-431089/1-A	Method Blank	82	84	86	92	92	90	90	89
MB 320-435321/1-A	Method Blank	85	84	90	94	102	98	103	104

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOSA (25-150)
320-66591-1	PFAS-5 3-5'	94	99	102	75	73	72	91	106
320-66591-2	PFAS-8 6-8'	88	92	93	66	66	66	84	81
320-66591-3	PFAS-7 4-6'	88	94	98	67	67	66	85	76
320-66591-4	PFAS-6 5-7'	93	98	100	73	73	72	92	81
320-66591-4 MS	PFAS-6 5-7'	89	95	100	72	73	72	93	81
320-66591-4 MSD	PFAS-6 5-7'	97	98	99	72	72	71	91	79
320-66591-5	PFAS-4 6-8'	107	105	96	76	82	81	87	62
320-66591-5 MS	PFAS-4 6-8'	111	120	112	78	81	82	91	70
320-66591-5 MSD	PFAS-4 6-8'	115	120	112	83	83	83	87	76
320-66591-6	PFAS-3 4-6'	88	92	90	66	66	66	84	68
320-66591-7	PFAS-2 2-4'	84	89	98	63	60	60	84	84
320-66591-8	PFAS-1 3-4'	83	86	85	60	56	57	73	82
LCS 320-431089/2-A	Lab Control Sample	92	98	108	90	92	89	96	92
LCS 320-435321/2-A	Lab Control Sample	117	115	107	88	90	93	93	96
MB 320-431089/1-A	Method Blank	86	94	99	85	86	83	87	84
MB 320-435321/1-A	Method Blank	104	109	101	83	86	86	88	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOSA (25-150)	dMeFOSA (25-150)	dEtFOSA (25-150)	NMFM (10-120)	NEFM (10-120)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-66591-1	PFAS-5 3-5'	117	52	50	7 *5	7 *5	69	65	61
320-66591-2	PFAS-8 6-8'	96	47	46	5 *5	6 *5	41	44	43
320-66591-3	PFAS-7 4-6'	90	45	45	7 *5	7 *5	40	43	41
320-66591-4	PFAS-6 5-7'	93	45	45	6 *5	6 *5	41	48	46
320-66591-4 MS	PFAS-6 5-7'	96	60	55	5 *5	5 *5	42	44	44
320-66591-4 MSD	PFAS-6 5-7'	91	52	51	6 *5	5 *5	42	42	42
320-66591-5	PFAS-4 6-8'	71	50	44	6 *5	6 *5	76	82	82
320-66591-5 MS	PFAS-4 6-8'	76	56	48	10	10	87	90	91
320-66591-5 MSD	PFAS-4 6-8'	75	60	54	6 *5	6 *5	85	91	89
320-66591-6	PFAS-3 4-6'	86	60	57	11	11	38	39	37
320-66591-7	PFAS-2 2-4'	96	44	38	25	23	69	48	51

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 320-66591-1
Project/Site: RETIA – Saukville, WI 341-020

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

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (25-150)	dEtFOSA (25-150)	NMFM (10-120)	NEFM (10-120)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-66591-8	PFAS-1 3-4'	91	27	26	13	11	69	51	50
LCS 320-431089/2-A	Lab Control Sample	102	45	43	9 *5	8 *5	58	63	57
LCS 320-435321/2-A	Lab Control Sample	104	51	46	18	18	92	191 *5	110
MB 320-431089/1-A	Method Blank	96	40	40	7 *5	7 *5	58	64	58
MB 320-435321/1-A	Method Blank	104	46	37	12	13	100	184 *5	114

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-66591-1	PFAS-5 3-5'	84
320-66591-2	PFAS-8 6-8'	84
320-66591-3	PFAS-7 4-6'	85
320-66591-4	PFAS-6 5-7'	87
320-66591-4 MS	PFAS-6 5-7'	88
320-66591-4 MSD	PFAS-6 5-7'	92
320-66591-5	PFAS-4 6-8'	92
320-66591-5 MS	PFAS-4 6-8'	94
320-66591-5 MSD	PFAS-4 6-8'	94
320-66591-6	PFAS-3 4-6'	86
320-66591-7	PFAS-2 2-4'	76
320-66591-8	PFAS-1 3-4'	74
LCS 320-431089/2-A	Lab Control Sample	92
LCS 320-435321/2-A	Lab Control Sample	91
MB 320-431089/1-A	Method Blank	83
MB 320-435321/1-A	Method Blank	89

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

HFPODA = 13C3 HFPO-DA

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66591-9	FB-1	102	106	99	98	99	96	94	89
320-66591-10	EB-1	96	101	94	94	96	92	91	92
320-66591-11	TB-Soil	97	99	96	94	99	94	89	96
320-66591-12	FB-2	99	101	98	92	99	97	88	91
320-66591-13	EB-2	99	100	96	96	101	97	99	90
LCS 320-431329/2-A	Lab Control Sample	96	96	95	92	96	93	89	91
LCSD 320-431329/3-A	Lab Control Sample Dup	101	102	100	94	101	93	91	91
MB 320-431329/1-A	Method Blank	101	99	97	97	102	93	98	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)
320-66591-9	FB-1	87	85	86	101	101	108	107	64
320-66591-10	EB-1	87	83	86	97	96	98	99	62
320-66591-11	TB-Soil	76	81	68	95	96	100	101	59
320-66591-12	FB-2	94	89	87	97	100	104	104	65
320-66591-13	EB-2	86	91	90	100	103	107	110	69
LCS 320-431329/2-A	Lab Control Sample	89	83	82	94	95	96	97	60
LCSD 320-431329/3-A	Lab Control Sample Dup	97	87	93	99	98	102	100	64
MB 320-431329/1-A	Method Blank	93	84	89	99	103	104	104	62

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (20-150)	dEtFOSA (20-150)	NMFM (10-120)	NEFM (10-120)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-66591-9	FB-1	71	77	56	26	22	83	94	99
320-66591-10	EB-1	64	71	59	39	31	80	90	100
320-66591-11	TB-Soil	60	66	53	31	25	82	91	93
320-66591-12	FB-2	66	73	54	31	24	86	94	104
320-66591-13	EB-2	72	83	62	34	29	88	101	109
LCS 320-431329/2-A	Lab Control Sample	62	73	55	29	24	77	81	91
LCSD 320-431329/3-A	Lab Control Sample Dup	64	71	58	34	30	79	86	94
MB 320-431329/1-A	Method Blank	63	72	56	33	24	79	87	99

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-66591-9	FB-1	92
320-66591-10	EB-1	87
320-66591-11	TB-Soil	91
320-66591-12	FB-2	90
320-66591-13	EB-2	88
LCS 320-431329/2-A	Lab Control Sample	86
LCSD 320-431329/3-A	Lab Control Sample Dup	93
MB 320-431329/1-A	Method Blank	89

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 320-66591-1
Project/Site: RETIA – Saukville, WI 341-020

PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-431089/1-A
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0846	J	0.20	0.028	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoropentanoic acid (PFPeA)	<0.077		0.20	0.077	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorohexanoic acid (PFHxA)	<0.042		0.20	0.042	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoroheptanoic acid (PFHpA)	<0.029		0.20	0.029	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorooctanoic acid (PFOA)	<0.086		0.20	0.086	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorononanoic acid (PFNA)	<0.036		0.20	0.036	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorodecanoic acid (PFDA)	<0.022		0.20	0.022	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoroundecanoic acid (PFUnA)	<0.036		0.20	0.036	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorododecanoic acid (PFDoA)	<0.067		0.20	0.067	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorotridecanoic acid (PFTriA)	<0.051		0.20	0.051	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.20	0.054	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.044		0.20	0.044	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.028		0.20	0.028	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.020		0.20	0.020	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.20	0.031	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.035		0.20	0.035	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.50	0.20	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorononanesulfonic acid (PFNS)	<0.020		0.20	0.020	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.039		0.20	0.039	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.20	0.060	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
Perfluorooctanesulfonamide (FOSA)	<0.082		0.20	0.082	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
NEtFOSA	<0.024		0.20	0.024	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
NMeFOSA	<0.041		0.20	0.041	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.39		2.0	0.39	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		2.0	0.37	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
NMeFOSE	<0.071		0.20	0.071	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
NEtFOSE	<0.036		0.20	0.036	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
4:2 FTS	<0.37		2.0	0.37	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
6:2 FTS	<0.15		2.0	0.15	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
8:2 FTS	<0.25		2.0	0.25	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
10:2 FTS	<0.050		0.20	0.050	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
DONA	<0.018		0.20	0.018	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
HFPO-DA (GenX)	<0.11		0.25	0.11	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
F-53B Major	<0.027		0.20	0.027	ug/Kg		11/12/20 13:42	11/22/20 06:51	1
F-53B Minor	<0.022		0.20	0.022	ug/Kg		11/12/20 13:42	11/22/20 06:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*11/12/20 13:42*	*11/22/20 06:51*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/12/20 13:42*	*11/22/20 06:51*	*1*
13C2 PFHxA	*86*		*25 - 150*	*11/12/20 13:42*	*11/22/20 06:51*	*1*
13C4 PFHpA	*92*		*25 - 150*	*11/12/20 13:42*	*11/22/20 06:51*	*1*
13C4 PFOA	*92*		*25 - 150*	*11/12/20 13:42*	*11/22/20 06:51*	*1*

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

Lab Sample ID: MB 320-431089/1-A
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431089

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	90		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C2 PFDA	90		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C2 PFUnA	89		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C2 PFDoA	86		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C2 PFTeDA	94		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C2 PFHxDA	99		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C3 PFBS	85		25 - 150	11/12/20 13:42	11/22/20 06:51	1
18O2 PFHxS	86		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C4 PFOS	83		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C8 FOSA	87		25 - 150	11/12/20 13:42	11/22/20 06:51	1
d3-NMeFOSAA	84		25 - 150	11/12/20 13:42	11/22/20 06:51	1
d5-NEtFOSAA	96		25 - 150	11/12/20 13:42	11/22/20 06:51	1
d-N-MeFOSA-M	40		25 - 150	11/12/20 13:42	11/22/20 06:51	1
d-N-EtFOSA-M	40		25 - 150	11/12/20 13:42	11/22/20 06:51	1
d7-N-MeFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 06:51	1
d9-N-EtFOSE-M	7	*5	10 - 120	11/12/20 13:42	11/22/20 06:51	1
M2-4:2 FTS	58		25 - 150	11/12/20 13:42	11/22/20 06:51	1
M2-6:2 FTS	64		25 - 150	11/12/20 13:42	11/22/20 06:51	1
M2-8:2 FTS	58		25 - 150	11/12/20 13:42	11/22/20 06:51	1
13C3 HFPO-DA	83		25 - 150	11/12/20 13:42	11/22/20 06:51	1

Lab Sample ID: LCS 320-431089/2-A
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.35		ug/Kg		117	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	1.98		ug/Kg		99	69 - 129
Perfluorohexanoic acid (PFHxA)	2.00	2.12		ug/Kg		106	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	2.08		ug/Kg		104	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	2.01		ug/Kg		101	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.09		ug/Kg		104	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	2.19		ug/Kg		109	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	2.26		ug/Kg		113	66 - 126
Perfluorododecanoic acid (PFDoA)	2.00	2.29		ug/Kg		114	71 - 131
Perfluorotridecanoic acid (PFTriA)	2.00	2.27		ug/Kg		114	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.00	2.28		ug/Kg		114	67 - 127
Perfluoro-n-hexadecanoic acid (PFHxDA)	2.00	1.93		ug/Kg		96	75 - 135
Perfluoro-n-octadecanoic acid (PFODA)	2.00	2.05		ug/Kg		102	53 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.99		ug/Kg		112	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.01		ug/Kg		107	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.81		ug/Kg		99	62 - 122

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

Lab Sample ID: LCS 320-431089/2-A
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.13		ug/Kg		112	76 - 136
Perfluorooctanesulfonic acid (PFOS)	1.86	2.15		ug/Kg		116	68 - 141
Perfluorononanesulfonic acid (PFNS)	1.92	2.10		ug/Kg		109	72 - 132
Perfluorodecanesulfonic acid (PFDS)	1.93	2.09		ug/Kg		108	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	1.94	2.18		ug/Kg		113	70 - 130
Perfluorooctanesulfonamide (FOSA)	2.00	2.26		ug/Kg		113	77 - 137
NMeFOSA	2.00	2.00		ug/Kg		100	63 - 148
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.05		ug/Kg		103	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.10		ug/Kg		105	72 - 132
NMeFOSE	2.00	2.09		ug/Kg		104	43 - 153
NEtFOSE	2.00	1.85		ug/Kg		92	44 - 155
4:2 FTS	1.87	2.10		ug/Kg		113	68 - 143
6:2 FTS	1.90	2.36		ug/Kg		124	73 - 139
8:2 FTS	1.92	2.36		ug/Kg		123	75 - 135
10:2 FTS	1.93	2.38		ug/Kg		123	69 - 145
DONA	1.88	2.20		ug/Kg		117	79 - 139
HFPO-DA (GenX)	2.00	2.10		ug/Kg		105	53 - 158
F-53B Major	1.86	2.03		ug/Kg		109	74 - 134
F-53B Minor	1.88	2.17		ug/Kg		115	66 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*88*		*25 - 150*
13C5 PFPeA	*90*		*25 - 150*
13C2 PFHxA	*95*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C4 PFOA	*96*		*25 - 150*
13C5 PFNA	*97*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*96*		*25 - 150*
13C2 PFDoA	*92*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C2 PFHxDA	*108*		*25 - 150*
13C3 PFBS	*90*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*89*		*25 - 150*
13C8 FOSA	*96*		*25 - 150*
d3-NMeFOSAA	*92*		*25 - 150*
d5-NEtFOSAA	*102*		*25 - 150*
d-N-MeFOSA-M	*45*		*25 - 150*
d-N-EtFOSA-M	*43*		*25 - 150*
d7-N-MeFOSE-M	*9*	**5*	*10 - 120*
d9-N-EtFOSE-M	*8*	**5*	*10 - 120*
M2-4:2 FTS	*58*		*25 - 150*

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

Lab Sample ID: LCS 320-431089/2-A
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431089

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	63		25 - 150
M2-8:2 FTS	57		25 - 150
13C3 HFPO-DA	92		25 - 150

Lab Sample ID: 320-66591-4 MS
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: PFAS-6 5-7'
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	0.17	J B	2.19	2.55		ug/Kg	☼	109	76 - 136
Perfluoropentanoic acid (PFPeA)	0.14	J	2.19	2.30		ug/Kg	☼	99	69 - 129
Perfluorohexanoic acid (PFHxA)	0.099	J	2.19	2.40		ug/Kg	☼	105	71 - 131
Perfluoroheptanoic acid (PFHpA)	0.083	J	2.19	2.32		ug/Kg	☼	102	71 - 131
Perfluorooctanoic acid (PFOA)	0.10	J	2.19	2.33		ug/Kg	☼	102	72 - 132
Perfluorononanoic acid (PFNA)	<0.039		2.19	2.32		ug/Kg	☼	106	73 - 133
Perfluorodecanoic acid (PFDA)	<0.024		2.19	2.33		ug/Kg	☼	106	72 - 132
Perfluoroundecanoic acid (PFUnA)	<0.039		2.19	2.44		ug/Kg	☼	111	66 - 126
Perfluorododecanoic acid (PFDoA)	<0.073		2.19	2.49		ug/Kg	☼	114	71 - 131
Perfluorotridecanoic acid (PFTriA)	<0.056		2.19	2.58		ug/Kg	☼	118	71 - 131
Perfluorotetradecanoic acid (PFTeA)	<0.059		2.19	2.38		ug/Kg	☼	109	67 - 127
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.048		2.19	2.22		ug/Kg	☼	102	75 - 135
Perfluoro-n-octadecanoic acid (PFODA)	<0.031		2.19	2.18		ug/Kg	☼	100	53 - 130
Perfluorobutanesulfonic acid (PFBS)	<0.027		1.94	2.03		ug/Kg	☼	105	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	<0.022		2.05	2.15		ug/Kg	☼	105	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	<0.034		1.99	1.95		ug/Kg	☼	98	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	<0.038		2.08	2.28		ug/Kg	☼	110	76 - 136
Perfluorooctanesulfonic acid (PFOS)	0.42	J	2.03	2.26		ug/Kg	☼	90	68 - 141
Perfluorononanesulfonic acid (PFNS)	<0.022		2.10	2.32		ug/Kg	☼	110	72 - 132
Perfluorodecanesulfonic acid (PFDS)	<0.043		2.11	2.36		ug/Kg	☼	112	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	<0.065		2.12	2.32		ug/Kg	☼	109	70 - 130
Perfluorooctanesulfonamide (FOSA)	<0.089		2.19	2.42		ug/Kg	☼	110	77 - 137
NMeFOSA	<0.045		2.19	2.23		ug/Kg	☼	102	63 - 148
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.43		2.19	2.32		ug/Kg	☼	106	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.40		2.19	2.14	J	ug/Kg	☼	98	72 - 132
NMeFOSE	<0.077		2.19	2.11		ug/Kg	☼	97	43 - 153
NEtFOSE	<0.039		2.19	2.31		ug/Kg	☼	105	44 - 155

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

Lab Sample ID: 320-66591-4 MS
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: PFAS-6 5-7'
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4:2 FTS	<0.40		2.04	2.46		ug/Kg	☼	120	68 - 143
6:2 FTS	0.78	J	2.08	3.12		ug/Kg	☼	112	73 - 139
8:2 FTS	<0.27		2.10	2.61		ug/Kg	☼	125	75 - 135
10:2 FTS	<0.055		2.11	3.03		ug/Kg	☼	144	69 - 145
DONA	<0.020	F1	2.06	2.85		ug/Kg	☼	138	79 - 139
HFPO-DA (GenX)	<0.12		2.19	2.36		ug/Kg	☼	108	53 - 158
F-53B Major	<0.029		2.04	2.21		ug/Kg	☼	108	74 - 134
F-53B Minor	<0.024		2.06	2.49		ug/Kg	☼	121	66 - 136

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*84*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C4 PFHpA	*99*		*25 - 150*
13C4 PFOA	*93*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*94*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*89*		*25 - 150*
13C2 PFTeDA	*95*		*25 - 150*
13C2 PFHxDA	*100*		*25 - 150*
13C3 PFBS	*72*		*25 - 150*
18O2 PFHxS	*73*		*25 - 150*
13C4 PFOS	*72*		*25 - 150*
13C8 FOSA	*93*		*25 - 150*
d3-NMeFOSAA	*81*		*25 - 150*
d5-NEtFOSAA	*96*		*25 - 150*
d-N-MeFOSA-M	*60*		*25 - 150*
d-N-EtFOSA-M	*55*		*25 - 150*
d7-N-MeFOSE-M	*5*	*5	*10 - 120*
d9-N-EtFOSE-M	*5*	*5	*10 - 120*
M2-4:2 FTS	*42*		*25 - 150*
M2-6:2 FTS	*44*		*25 - 150*
M2-8:2 FTS	*44*		*25 - 150*
13C3 HFPO-DA	*88*		*25 - 150*

Lab Sample ID: 320-66591-4 MSD
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: PFAS-6 5-7'
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.17	J B	2.11	2.57		ug/Kg	☼	114	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)	0.14	J	2.11	2.15		ug/Kg	☼	95	69 - 129	6	30
Perfluorohexanoic acid (PFHxA)	0.099	J	2.11	2.28		ug/Kg	☼	103	71 - 131	5	30
Perfluoroheptanoic acid (PFHpA)	0.083	J	2.11	2.24		ug/Kg	☼	102	71 - 131	3	30
Perfluorooctanoic acid (PFOA)	0.10	J	2.11	2.17		ug/Kg	☼	98	72 - 132	7	30
Perfluorononanoic acid (PFNA)	<0.039		2.11	2.34		ug/Kg	☼	111	73 - 133	1	30
Perfluorodecanoic acid (PFDA)	<0.024		2.11	2.26		ug/Kg	☼	107	72 - 132	3	30

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

Lab Sample ID: 320-66591-4 MSD
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: PFAS-6 5-7'
Prep Type: Total/NA
Prep Batch: 431089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	<0.039		2.11	2.27		ug/Kg	☼	107	66 - 126	7	30
Perfluorododecanoic acid (PFDoA)	<0.073		2.11	2.19		ug/Kg	☼	103	71 - 131	13	30
Perfluorotridecanoic acid (PFTriA)	<0.056		2.11	2.29		ug/Kg	☼	108	71 - 131	12	30
Perfluorotetradecanoic acid (PFTeA)	<0.059		2.11	2.28		ug/Kg	☼	108	67 - 127	5	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.048		2.11	2.14		ug/Kg	☼	101	75 - 135	4	30
Perfluoro-n-octadecanoic acid (PFODA)	<0.031		2.11	2.28		ug/Kg	☼	108	53 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<0.027		1.87	2.01		ug/Kg	☼	108	69 - 129	1	30
Perfluoropentanesulfonic acid (PFPeS)	<0.022		1.98	2.17		ug/Kg	☼	109	66 - 126	1	30
Perfluorohexanesulfonic acid (PFHxS)	<0.034		1.92	1.97		ug/Kg	☼	102	62 - 122	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	<0.038		2.01	2.27		ug/Kg	☼	113	76 - 136	1	30
Perfluorooctanesulfonic acid (PFOS)	0.42	J	1.96	2.52		ug/Kg	☼	107	68 - 141	11	30
Perfluorononanesulfonic acid (PFNS)	<0.022		2.03	2.27		ug/Kg	☼	112	72 - 132	2	30
Perfluorodecanesulfonic acid (PFDS)	<0.043		2.04	2.32		ug/Kg	☼	114	71 - 131	2	30
Perfluorododecanesulfonic acid (PFDoS)	<0.065		2.04	2.29		ug/Kg	☼	112	70 - 130	1	30
Perfluorooctanesulfonamide (FOSA)	<0.089		2.11	2.36		ug/Kg	☼	112	77 - 137	2	30
NMeFOSA	<0.045		2.11	2.08		ug/Kg	☼	98	63 - 148	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.43		2.11	2.21		ug/Kg	☼	105	72 - 132	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.40		2.11	2.11		ug/Kg	☼	100	72 - 132	2	30
NMeFOSE	<0.077		2.11	2.17		ug/Kg	☼	103	43 - 153	3	30
NEtFOSE	<0.039		2.11	2.22		ug/Kg	☼	105	44 - 155	4	30
4:2 FTS	<0.40		1.97	2.13		ug/Kg	☼	108	68 - 143	15	30
6:2 FTS	0.78	J	2.00	3.09		ug/Kg	☼	115	73 - 139	1	30
8:2 FTS	<0.27		2.02	2.45		ug/Kg	☼	121	75 - 135	6	30
10:2 FTS	<0.055		2.04	2.72		ug/Kg	☼	134	69 - 145	11	30
DONA	<0.020	F1	1.99	2.79	F1	ug/Kg	☼	140	79 - 139	2	30
HFPO-DA (GenX)	<0.12		2.11	2.21		ug/Kg	☼	105	53 - 158	7	30
F-53B Major	<0.029		1.97	2.33		ug/Kg	☼	119	74 - 134	5	30
F-53B Minor	<0.024		1.99	2.53		ug/Kg	☼	127	66 - 136	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*84*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*92*		*25 - 150*
13C4 PFHpA	*98*		*25 - 150*
13C4 PFOA	*95*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*

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

Lab Sample ID: 320-66591-4 MSD
Matrix: Solid
Analysis Batch: 434434

Client Sample ID: PFAS-6 5-7'
Prep Type: Total/NA
Prep Batch: 431089

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*96*		*25 - 150*
13C2 PFDoA	*97*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C2 PFHxDA	*99*		*25 - 150*
13C3 PFBS	*72*		*25 - 150*
18O2 PFHxS	*72*		*25 - 150*
13C4 PFOS	*71*		*25 - 150*
13C8 FOSA	*91*		*25 - 150*
d3-NMeFOSAA	*79*		*25 - 150*
d5-NEtFOSAA	*91*		*25 - 150*
d-N-MeFOSA-M	*52*		*25 - 150*
d-N-EtFOSA-M	*51*		*25 - 150*
d7-N-MeFOSE-M	*6*	**5*	*10 - 120*
d9-N-EtFOSE-M	*5*	**5*	*10 - 120*
M2-4:2 FTS	*42*		*25 - 150*
M2-6:2 FTS	*42*		*25 - 150*
M2-8:2 FTS	*42*		*25 - 150*
13C3 HFPO-DA	*92*		*25 - 150*

Lab Sample ID: MB 320-431329/1-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/13/20 05:03	11/13/20 23:28	1

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

Lab Sample ID: MB 320-431329/1-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/13/20 05:03	11/13/20 23:28	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/13/20 05:03	11/13/20 23:28	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/13/20 05:03	11/13/20 23:28	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/13/20 05:03	11/13/20 23:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		11/13/20 05:03	11/13/20 23:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		11/13/20 05:03	11/13/20 23:28	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/13/20 05:03	11/13/20 23:28	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/13/20 05:03	11/13/20 23:28	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/13/20 05:03	11/13/20 23:28	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/13/20 05:03	11/13/20 23:28	1
8:2 FTS	<0.46		2.0	0.46	ng/L		11/13/20 05:03	11/13/20 23:28	1
10:2 FTS	<0.67		2.0	0.67	ng/L		11/13/20 05:03	11/13/20 23:28	1
DONA	<0.40		2.0	0.40	ng/L		11/13/20 05:03	11/13/20 23:28	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/13/20 05:03	11/13/20 23:28	1
F-53B Major	<0.24		2.0	0.24	ng/L		11/13/20 05:03	11/13/20 23:28	1
F-53B Minor	<0.32		2.0	0.32	ng/L		11/13/20 05:03	11/13/20 23:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*101*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C5 PFPeA	*99*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFHxA	*97*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C4 PFHpA	*97*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C4 PFOA	*102*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C5 PFNA	*93*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFDA	*98*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFUnA	*98*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFDoA	*93*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFTeDA	*84*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C2 PFHxDA	*89*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C3 PFBS	*99*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
18O2 PFHxS	*103*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C4 PFOS	*104*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C8 FOSA	*104*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d3-NMeFOSAA	*62*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d5-NEtFOSAA	*63*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d-N-MeFOSA-M	*72*		*20 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d-N-EtFOSA-M	*56*		*20 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d7-N-MeFOSE-M	*33*		*10 - 120*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
d9-N-EtFOSE-M	*24*		*10 - 120*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
M2-4:2 FTS	*79*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
M2-6:2 FTS	*87*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
M2-8:2 FTS	*99*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*
13C3 HFPO-DA	*89*		*25 - 150*	*11/13/20 05:03*	*11/13/20 23:28*	*1*

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

Lab Sample ID: LCS 320-431329/2-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	42.2		ng/L		106	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.5		ng/L		99	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	41.8		ng/L		104	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	42.0		ng/L		105	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	38.0		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	40.0	40.9		ng/L		102	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.4		ng/L		103	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	44.6		ng/L		112	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	41.0		ng/L		102	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	43.4		ng/L		109	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	45.8		ng/L		114	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	41.2		ng/L		103	76 - 136
Perfluoro-n-octadecanoic acid (PFODA)	40.0	48.7		ng/L		122	58 - 145
Perfluorobutanesulfonic acid (PFBS)	35.4	36.8		ng/L		104	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.2		ng/L		110	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.3		ng/L		100	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	39.7		ng/L		107	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	41.9		ng/L		109	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	40.8		ng/L		106	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	42.1		ng/L		109	67 - 127
Perfluorooctanesulfonamide (FOSA)	40.0	42.8		ng/L		107	73 - 133
NMeFOSA	40.0	42.0		ng/L		105	67 - 154
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.0		ng/L		112	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.2		ng/L		108	76 - 136
NMeFOSE	40.0	46.2		ng/L		116	70 - 130
NEtFOSE	40.0	39.5		ng/L		99	71 - 131
4:2 FTS	37.4	40.1		ng/L		107	79 - 139
6:2 FTS	37.9	37.3		ng/L		98	59 - 175
8:2 FTS	38.3	39.3		ng/L		103	75 - 135
10:2 FTS	38.6	43.8		ng/L		114	64 - 142
DONA	37.7	39.6		ng/L		105	79 - 139
HFPO-DA (GenX)	40.0	43.5		ng/L		109	51 - 173
F-53B Major	37.3	38.2		ng/L		103	75 - 135
F-53B Minor	37.7	38.7		ng/L		103	54 - 114

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

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	96		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	92		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	89		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	89		25 - 150
13C2 PFTeDA	83		25 - 150
13C2 PFHxDA	82		25 - 150
13C3 PFBS	94		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	96		25 - 150
13C8 FOSA	97		25 - 150
d3-NMeFOSAA	60		25 - 150
d5-NEtFOSAA	62		25 - 150
d-N-MeFOSA-M	73		20 - 150
d-N-EtFOSA-M	55		20 - 150
d7-N-MeFOSE-M	29		10 - 120
d9-N-EtFOSE-M	24		10 - 120
M2-4:2 FTS	77		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	91		25 - 150
13C3 HFPO-DA	86		25 - 150

Lab Sample ID: LCSD 320-431329/3-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	42.0		ng/L		105	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)			40.0	39.1		ng/L		98	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)			40.0	40.6		ng/L		101	73 - 133	3	30
Perfluoroheptanoic acid (PFHpA)			40.0	44.1		ng/L		110	72 - 132	5	30
Perfluorooctanoic acid (PFOA)			40.0	38.1		ng/L		95	70 - 130	0	30
Perfluorononanoic acid (PFNA)			40.0	42.3		ng/L		106	75 - 135	3	30
Perfluorodecanoic acid (PFDA)			40.0	43.1		ng/L		108	76 - 136	4	30
Perfluoroundecanoic acid (PFUnA)			40.0	42.7		ng/L		107	68 - 128	4	30
Perfluorododecanoic acid (PFDoA)			40.0	39.8		ng/L		100	71 - 131	3	30
Perfluorotridecanoic acid (PFTriA)			40.0	42.1		ng/L		105	71 - 131	3	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.5		ng/L		104	70 - 130	10	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	40.5		ng/L		101	76 - 136	2	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	41.1		ng/L		103	58 - 145	17	30
Perfluorobutanesulfonic acid (PFBS)			35.4	36.6		ng/L		103	67 - 127	1	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	39.4		ng/L		105	66 - 126	4	30

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

Lab Sample ID: LCSD 320-431329/3-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)			36.4	35.9		ng/L		99	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	40.1		ng/L		105	76 - 136	2	30
Perfluorooctanesulfonic acid (PFOS)			37.1	38.4		ng/L		103	70 - 130	3	30
Perfluorononanesulfonic acid (PFNS)			38.4	39.8		ng/L		104	75 - 135	5	30
Perfluorodecanesulfonic acid (PFDS)			38.6	37.8		ng/L		98	71 - 131	8	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	40.5		ng/L		104	67 - 127	4	30
Perfluorooctanesulfonamide (FOSA)			40.0	42.1		ng/L		105	73 - 133	2	30
NMeFOSA			40.0	42.0		ng/L		105	67 - 154	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	45.8		ng/L		114	76 - 136	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	42.7		ng/L		107	76 - 136	1	30
NMeFOSE			40.0	45.2		ng/L		113	70 - 130	2	30
NEtFOSE			40.0	39.3		ng/L		98	71 - 131	0	30
4:2 FTS			37.4	40.8		ng/L		109	79 - 139	2	30
6:2 FTS			37.9	35.9		ng/L		95	59 - 175	4	30
8:2 FTS			38.3	38.9		ng/L		102	75 - 135	1	30
10:2 FTS			38.6	43.4		ng/L		112	64 - 142	1	30
DONA			37.7	39.0		ng/L		103	79 - 139	2	30
HFPO-DA (GenX)			40.0	43.5		ng/L		109	51 - 173	0	30
F-53B Major			37.3	38.1		ng/L		102	75 - 135	0	30
F-53B Minor			37.7	37.9		ng/L		101	54 - 114	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*101*		*25 - 150*
13C5 PFPeA	*102*		*25 - 150*
13C2 PFHxA	*100*		*25 - 150*
13C4 PFHpA	*94*		*25 - 150*
13C4 PFOA	*101*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*97*		*25 - 150*
13C2 PFTeDA	*87*		*25 - 150*
13C2 PFHxDA	*93*		*25 - 150*
13C3 PFBS	*99*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*
13C4 PFOS	*102*		*25 - 150*
13C8 FOSA	*100*		*25 - 150*
d3-NMeFOSAA	*64*		*25 - 150*
d5-NEtFOSAA	*64*		*25 - 150*
d-N-MeFOSA-M	*71*		*20 - 150*
d-N-EtFOSA-M	*58*		*20 - 150*
d7-N-MeFOSE-M	*34*		*10 - 120*

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

Lab Sample ID: LCSD 320-431329/3-A
Matrix: Water
Analysis Batch: 431623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431329

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d9-N-EtFOSE-M	30		10 - 120
M2-4:2 FTS	79		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	94		25 - 150
13C3 HFPO-DA	93		25 - 150

Lab Sample ID: MB 320-435321/1-A
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.028		0.20	0.028	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoropentanoic acid (PFPeA)	<0.077		0.20	0.077	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorohexanoic acid (PFHxA)	<0.042		0.20	0.042	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoroheptanoic acid (PFHpA)	<0.029		0.20	0.029	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorooctanoic acid (PFOA)	<0.086		0.20	0.086	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorononanoic acid (PFNA)	<0.036		0.20	0.036	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorodecanoic acid (PFDA)	<0.022		0.20	0.022	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoroundecanoic acid (PFUnA)	<0.036		0.20	0.036	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorododecanoic acid (PFDoA)	<0.067		0.20	0.067	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorotridecanoic acid (PFTriA)	<0.051		0.20	0.051	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.20	0.054	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.044		0.20	0.044	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.028		0.20	0.028	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.020		0.20	0.020	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.20	0.031	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.035		0.20	0.035	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.50	0.20	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorononanesulfonic acid (PFNS)	<0.020		0.20	0.020	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.039		0.20	0.039	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.20	0.060	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
Perfluorooctanesulfonamide (FOSA)	<0.082		0.20	0.082	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
NEtFOSA	<0.024		0.20	0.024	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
NMeFOSA	<0.041		0.20	0.041	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.39		2.0	0.39	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		2.0	0.37	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
NMeFOSE	<0.071		0.20	0.071	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
NEtFOSE	<0.036		0.20	0.036	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
4:2 FTS	<0.37		2.0	0.37	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
6:2 FTS	<0.15		2.0	0.15	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
8:2 FTS	<0.25		2.0	0.25	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
10:2 FTS	<0.050		0.20	0.050	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
DONA	<0.018		0.20	0.018	ug/Kg		11/24/20 19:24	11/27/20 15:50	1

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

Lab Sample ID: MB 320-435321/1-A
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	<0.11		0.25	0.11	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
F-53B Major	<0.027		0.20	0.027	ug/Kg		11/24/20 19:24	11/27/20 15:50	1
F-53B Minor	<0.022		0.20	0.022	ug/Kg		11/24/20 19:24	11/27/20 15:50	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFHxA	*90*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C4 PFHpA	*94*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C4 PFOA	*102*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C5 PFNA	*98*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFDA	*103*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFUnA	*104*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFDoA	*104*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFTeDA	*109*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C2 PFHxDA	*101*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C3 PFBS	*83*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
18O2 PFHxS	*86*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C4 PFOS	*86*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C8 FOSA	*88*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d3-NMeFOSAA	*94*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d5-NEtFOSAA	*104*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d-N-MeFOSA-M	*46*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d-N-EtFOSA-M	*37*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d7-N-MeFOSE-M	*12*		*10 - 120*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
d9-N-EtFOSE-M	*13*		*10 - 120*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
M2-4:2 FTS	*100*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
M2-6:2 FTS	*184*	**5*	*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
M2-8:2 FTS	*114*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*
13C3 HFPO-DA	*89*		*25 - 150*	*11/24/20 19:24*	*11/27/20 15:50*	*1*

Lab Sample ID: LCS 320-435321/2-A
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	1.98		ug/Kg		99	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	1.97		ug/Kg		99	69 - 129
Perfluorohexanoic acid (PFHxA)	2.00	1.98		ug/Kg		99	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	1.88		ug/Kg		94	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	1.86		ug/Kg		93	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.03		ug/Kg		101	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	1.99		ug/Kg		100	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	1.80		ug/Kg		90	66 - 126
Perfluorododecanoic acid (PFDoA)	2.00	1.76		ug/Kg		88	71 - 131
Perfluorotridecanoic acid (PFTriA)	2.00	1.94		ug/Kg		97	71 - 131

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

Lab Sample ID: LCS 320-435321/2-A
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotetradecanoic acid (PFTeA)	2.00	2.14		ug/Kg		107	67 - 127
Perfluoro-n-hexadecanoic acid (PFHxDA)	2.00	1.74		ug/Kg		87	75 - 135
Perfluoro-n-octadecanoic acid (PFODA)	2.00	2.01		ug/Kg		100	53 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.65		ug/Kg		93	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.95		ug/Kg		104	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.68		ug/Kg		92	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.93		ug/Kg		101	76 - 136
Perfluorooctanesulfonic acid (PFOS)	1.86	2.10		ug/Kg		113	68 - 141
Perfluorononanesulfonic acid (PFNS)	1.92	1.94		ug/Kg		101	72 - 132
Perfluorodecanesulfonic acid (PFDS)	1.93	1.95		ug/Kg		101	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	1.94	2.02		ug/Kg		104	70 - 130
Perfluorooctanesulfonamide (FOSA)	2.00	2.08		ug/Kg		104	77 - 137
NMeFOSA	2.00	1.93		ug/Kg		97	63 - 148
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.92	J	ug/Kg		96	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.96	J	ug/Kg		98	72 - 132
NMeFOSE	2.00	1.93		ug/Kg		97	43 - 153
NEtFOSE	2.00	1.73		ug/Kg		87	44 - 155
4:2 FTS	1.87	2.12		ug/Kg		113	68 - 143
6:2 FTS	1.90	1.75	J	ug/Kg		92	73 - 139
8:2 FTS	1.92	1.95	J	ug/Kg		102	75 - 135
10:2 FTS	1.93	2.56		ug/Kg		133	69 - 145
DONA	1.88	2.05		ug/Kg		109	79 - 139
HFPO-DA (GenX)	2.00	2.09		ug/Kg		105	53 - 158
F-53B Major	1.86	1.96		ug/Kg		105	74 - 134
F-53B Minor	1.88	1.99		ug/Kg		106	66 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*91*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFHxA	*96*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C4 PFOA	*108*		*25 - 150*
13C5 PFNA	*100*		*25 - 150*
13C2 PFDA	*102*		*25 - 150*
13C2 PFUnA	*99*		*25 - 150*
13C2 PFDoA	*117*		*25 - 150*
13C2 PFTeDA	*115*		*25 - 150*
13C2 PFHxDA	*107*		*25 - 150*

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

Lab Sample ID: LCS 320-435321/2-A
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435321

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 PFBS	*88*		*25 - 150*
18O2 PFHxS	*90*		*25 - 150*
13C4 PFOS	*93*		*25 - 150*
13C8 FOSA	*93*		*25 - 150*
d3-NMeFOSAA	*96*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
d-N-MeFOSA-M	*51*		*25 - 150*
d-N-EtFOSA-M	*46*		*25 - 150*
d7-N-MeFOSE-M	*18*		*10 - 120*
d9-N-EtFOSE-M	*18*		*10 - 120*
M2-4:2 FTS	*92*		*25 - 150*
M2-6:2 FTS	*191*	**5*	*25 - 150*
M2-8:2 FTS	*110*		*25 - 150*
13C3 HFPO-DA	*91*		*25 - 150*

Lab Sample ID: 320-66591-5 MS
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: PFAS-4 6-8'
Prep Type: Total/NA
Prep Batch: 435321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	<0.060		4.27	4.43		ug/Kg	☼	104	76 - 136
Perfluoropentanoic acid (PFPeA)	<0.16		4.27	4.04		ug/Kg	☼	95	69 - 129
Perfluorohexanoic acid (PFHxA)	<0.090		4.27	4.35		ug/Kg	☼	102	71 - 131
Perfluoroheptanoic acid (PFHpA)	0.079	J	4.27	4.20		ug/Kg	☼	96	71 - 131
Perfluorooctanoic acid (PFOA)	<0.18		4.27	3.97		ug/Kg	☼	93	72 - 132
Perfluorononanoic acid (PFNA)	<0.077		4.27	4.16		ug/Kg	☼	97	73 - 133
Perfluorodecanoic acid (PFDA)	<0.047		4.27	4.29		ug/Kg	☼	100	72 - 132
Perfluoroundecanoic acid (PFUnA)	<0.077		4.27	4.38		ug/Kg	☼	103	66 - 126
Perfluorododecanoic acid (PFDoA)	<0.14		4.27	4.38		ug/Kg	☼	103	71 - 131
Perfluorotridecanoic acid (PFTriA)	<0.11		4.27	4.73		ug/Kg	☼	111	71 - 131
Perfluorotetradecanoic acid (PFTeA)	<0.12		4.27	4.36		ug/Kg	☼	102	67 - 127
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.094		4.27	3.56		ug/Kg	☼	83	75 - 135
Perfluoro-n-octadecanoic acid (PFODA)	<0.060		4.27	4.53		ug/Kg	☼	106	53 - 130
Perfluorobutanesulfonic acid (PFBS)	<0.053		3.78	3.83		ug/Kg	☼	101	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	<0.043		4.01	4.34		ug/Kg	☼	108	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	<0.066		3.89	3.75		ug/Kg	☼	96	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	<0.075		4.07	4.20		ug/Kg	☼	103	76 - 136
Perfluorooctanesulfonic acid (PFOS)	0.81	J	3.97	4.74		ug/Kg	☼	99	68 - 141
Perfluorononanesulfonic acid (PFNS)	<0.043		4.10	4.36		ug/Kg	☼	106	72 - 132

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

Lab Sample ID: 320-66591-5 MS
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: PFAS-4 6-8'
Prep Type: Total/NA
Prep Batch: 435321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	<0.083		4.12	4.43		ug/Kg	☼	107	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	<0.13		4.14	4.47		ug/Kg	☼	108	70 - 130
Perfluorooctanesulfonamide (FOSA)	<0.18		4.27	4.72		ug/Kg	☼	110	77 - 137
NMeFOSA	<0.088		4.27	3.93		ug/Kg	☼	92	63 - 148
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.83		4.27	4.30		ug/Kg	☼	101	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.79		4.27	4.42		ug/Kg	☼	103	72 - 132
NMeFOSE	<0.15		4.27	4.43		ug/Kg	☼	104	43 - 153
NEtFOSE	<0.077		4.27	3.88		ug/Kg	☼	91	44 - 155
4:2 FTS	<0.79		3.99	3.96	J	ug/Kg	☼	99	68 - 143
6:2 FTS	<0.32		4.05	3.69	J	ug/Kg	☼	91	73 - 139
8:2 FTS	<0.53		4.09	4.38		ug/Kg	☼	107	75 - 135
10:2 FTS	<0.11		4.12	5.79		ug/Kg	☼	141	69 - 145
DONA	<0.038		4.03	4.87		ug/Kg	☼	121	79 - 139
HFPO-DA (GenX)	<0.24		4.27	4.58		ug/Kg	☼	107	53 - 158
F-53B Major	<0.058		3.98	4.63		ug/Kg	☼	116	74 - 134
F-53B Minor	<0.047		4.03	4.79		ug/Kg	☼	119	66 - 136

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*92*		*25 - 150*
13C5 PFPeA	*92*		*25 - 150*
13C2 PFHxA	*95*		*25 - 150*
13C4 PFHpA	*103*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*103*		*25 - 150*
13C2 PFDA	*103*		*25 - 150*
13C2 PFUnA	*101*		*25 - 150*
13C2 PFDoA	*111*		*25 - 150*
13C2 PFTeDA	*120*		*25 - 150*
13C2 PFHxDA	*112*		*25 - 150*
13C3 PFBS	*78*		*25 - 150*
18O2 PFHxS	*81*		*25 - 150*
13C4 PFOS	*82*		*25 - 150*
13C8 FOSA	*91*		*25 - 150*
d3-NMeFOSAA	*70*		*25 - 150*
d5-NEtFOSAA	*76*		*25 - 150*
d-N-MeFOSA-M	*56*		*25 - 150*
d-N-EtFOSA-M	*48*		*25 - 150*
d7-N-MeFOSE-M	*10*		*10 - 120*
d9-N-EtFOSE-M	*10*		*10 - 120*
M2-4:2 FTS	*87*		*25 - 150*
M2-6:2 FTS	*90*		*25 - 150*
M2-8:2 FTS	*91*		*25 - 150*
13C3 HFPO-DA	*94*		*25 - 150*

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

Lab Sample ID: 320-66591-5 MSD
Matrix: Solid
Analysis Batch: 436008

Client Sample ID: PFAS-4 6-8'
Prep Type: Total/NA
Prep Batch: 435321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	<0.060		4.59	4.61		ug/Kg	☼	101	76 - 136	4	30
Perfluoropentanoic acid (PFPeA)	<0.16		4.59	4.68		ug/Kg	☼	102	69 - 129	15	30
Perfluorohexanoic acid (PFHxA)	<0.090		4.59	4.72		ug/Kg	☼	103	71 - 131	8	30
Perfluoroheptanoic acid (PFHpA)	0.079	J	4.59	4.41		ug/Kg	☼	94	71 - 131	5	30
Perfluorooctanoic acid (PFOA)	<0.18		4.59	4.30		ug/Kg	☼	94	72 - 132	8	30
Perfluorononanoic acid (PFNA)	<0.077		4.59	4.30		ug/Kg	☼	94	73 - 133	3	30
Perfluorodecanoic acid (PFDA)	<0.047		4.59	4.74		ug/Kg	☼	103	72 - 132	10	30
Perfluoroundecanoic acid (PFUnA)	<0.077		4.59	4.44		ug/Kg	☼	97	66 - 126	1	30
Perfluorododecanoic acid (PFDoA)	<0.14		4.59	4.06		ug/Kg	☼	88	71 - 131	8	30
Perfluorotridecanoic acid (PFTriA)	<0.11		4.59	4.35		ug/Kg	☼	95	71 - 131	8	30
Perfluorotetradecanoic acid (PFTeA)	<0.12		4.59	4.85		ug/Kg	☼	106	67 - 127	11	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.094		4.59	4.05		ug/Kg	☼	88	75 - 135	13	30
Perfluoro-n-octadecanoic acid (PFODA)	<0.060		4.59	4.85		ug/Kg	☼	106	53 - 130	7	30
Perfluorobutanesulfonic acid (PFBS)	<0.053		4.06	3.97		ug/Kg	☼	98	69 - 129	4	30
Perfluoropentanesulfonic acid (PFPeS)	<0.043		4.30	4.32		ug/Kg	☼	100	66 - 126	0	30
Perfluorohexanesulfonic acid (PFHxS)	<0.066		4.18	3.93		ug/Kg	☼	94	62 - 122	5	30
Perfluoroheptanesulfonic Acid (PFHpS)	<0.075		4.37	4.34		ug/Kg	☼	99	76 - 136	3	30
Perfluorooctanesulfonic acid (PFOS)	0.81	J	4.26	4.98		ug/Kg	☼	98	68 - 141	5	30
Perfluorononanesulfonic acid (PFNS)	<0.043		4.41	4.47		ug/Kg	☼	101	72 - 132	2	30
Perfluorodecanesulfonic acid (PFDS)	<0.083		4.42	4.45		ug/Kg	☼	101	71 - 131	0	30
Perfluorododecanesulfonic acid (PFDoS)	<0.13		4.44	4.82		ug/Kg	☼	109	70 - 130	8	30
Perfluorooctanesulfonamide (FOSA)	<0.18		4.59	5.19		ug/Kg	☼	113	77 - 137	10	30
NMeFOSA	<0.088		4.59	4.37		ug/Kg	☼	95	63 - 148	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.83		4.59	4.42	J	ug/Kg	☼	96	72 - 132	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.79		4.59	4.66		ug/Kg	☼	102	72 - 132	5	30
NMeFOSE	<0.15		4.59	4.55		ug/Kg	☼	99	43 - 153	3	30
NEtFOSE	<0.077		4.59	4.39		ug/Kg	☼	96	44 - 155	12	30
4:2 FTS	<0.79		4.29	4.59	J	ug/Kg	☼	107	68 - 143	15	30
6:2 FTS	<0.32		4.35	3.96	J	ug/Kg	☼	91	73 - 139	7	30
8:2 FTS	<0.53		4.40	4.54	J	ug/Kg	☼	103	75 - 135	4	30
10:2 FTS	<0.11		4.42	5.95		ug/Kg	☼	134	69 - 145	3	30
DONA	<0.038		4.32	5.27		ug/Kg	☼	122	79 - 139	8	30
HFPO-DA (GenX)	<0.24		4.59	4.85		ug/Kg	☼	106	53 - 158	6	30
F-53B Major	<0.058		4.28	4.90		ug/Kg	☼	115	74 - 134	6	30
F-53B Minor	<0.047		4.32	4.85		ug/Kg	☼	112	66 - 136	1	30

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	92		25 - 150
13C5 PFPeA	87		25 - 150
13C2 PFHxA	93		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	104		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	115		25 - 150
13C2 PFTeDA	120		25 - 150
13C2 PFHxDA	112		25 - 150
13C3 PFBS	83		25 - 150
18O2 PFHxS	83		25 - 150
13C4 PFOS	83		25 - 150
13C8 FOSA	87		25 - 150
d3-NMeFOSAA	76		25 - 150
d5-NEtFOSAA	75		25 - 150
d-N-MeFOSA-M	60		25 - 150
d-N-EtFOSA-M	54		25 - 150
d7-N-MeFOSE-M	6	*5	10 - 120
d9-N-EtFOSE-M	6	*5	10 - 120
M2-4:2 FTS	85		25 - 150
M2-6:2 FTS	91		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	94		25 - 150

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-66591-1 DU
Matrix: Solid
Analysis Batch: 431004

Client Sample ID: PFAS-5 3-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.6			13.6		%				0.4	20
Percent Solids	86.4			86.4		%				0.07	20

LCMS

Prep Batch: 431089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-1	PFAS-5 3-5'	Total/NA	Solid	SHAKE	
320-66591-2	PFAS-8 6-8'	Total/NA	Solid	SHAKE	
320-66591-3	PFAS-7 4-6'	Total/NA	Solid	SHAKE	
320-66591-4	PFAS-6 5-7'	Total/NA	Solid	SHAKE	
320-66591-6	PFAS-3 4-6'	Total/NA	Solid	SHAKE	
320-66591-7	PFAS-2 2-4'	Total/NA	Solid	SHAKE	
320-66591-8	PFAS-1 3-4'	Total/NA	Solid	SHAKE	
MB 320-431089/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-431089/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
320-66591-4 MS	PFAS-6 5-7'	Total/NA	Solid	SHAKE	
320-66591-4 MSD	PFAS-6 5-7'	Total/NA	Solid	SHAKE	

Prep Batch: 431329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-9	FB-1	Total/NA	Water	3535	
320-66591-10	EB-1	Total/NA	Water	3535	
320-66591-11	TB-Soil	Total/NA	Water	3535	
320-66591-12	FB-2	Total/NA	Water	3535	
320-66591-13	EB-2	Total/NA	Water	3535	
MB 320-431329/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-431329/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-431329/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 431623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-9	FB-1	Total/NA	Water	537 (modified)	431329
320-66591-10	EB-1	Total/NA	Water	537 (modified)	431329
320-66591-11	TB-Soil	Total/NA	Water	537 (modified)	431329
320-66591-12	FB-2	Total/NA	Water	537 (modified)	431329
320-66591-13	EB-2	Total/NA	Water	537 (modified)	431329
MB 320-431329/1-A	Method Blank	Total/NA	Water	537 (modified)	431329
LCS 320-431329/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	431329
LCSD 320-431329/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	431329

Analysis Batch: 434434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-1	PFAS-5 3-5'	Total/NA	Solid	537 (modified)	431089
320-66591-2	PFAS-8 6-8'	Total/NA	Solid	537 (modified)	431089
320-66591-3	PFAS-7 4-6'	Total/NA	Solid	537 (modified)	431089
320-66591-4	PFAS-6 5-7'	Total/NA	Solid	537 (modified)	431089
320-66591-6	PFAS-3 4-6'	Total/NA	Solid	537 (modified)	431089
320-66591-7	PFAS-2 2-4'	Total/NA	Solid	537 (modified)	431089
320-66591-8	PFAS-1 3-4'	Total/NA	Solid	537 (modified)	431089
MB 320-431089/1-A	Method Blank	Total/NA	Solid	537 (modified)	431089
LCS 320-431089/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	431089
320-66591-4 MS	PFAS-6 5-7'	Total/NA	Solid	537 (modified)	431089
320-66591-4 MSD	PFAS-6 5-7'	Total/NA	Solid	537 (modified)	431089

Prep Batch: 435321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-5	PFAS-4 6-8'	Total/NA	Solid	SHAKE	

LCMS (Continued)

Prep Batch: 435321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-435321/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-435321/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
320-66591-5 MS	PFAS-4 6-8'	Total/NA	Solid	SHAKE	
320-66591-5 MSD	PFAS-4 6-8'	Total/NA	Solid	SHAKE	

Analysis Batch: 436008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-5	PFAS-4 6-8'	Total/NA	Solid	537 (modified)	435321
MB 320-435321/1-A	Method Blank	Total/NA	Solid	537 (modified)	435321
LCS 320-435321/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	435321
320-66591-5 MS	PFAS-4 6-8'	Total/NA	Solid	537 (modified)	435321
320-66591-5 MSD	PFAS-4 6-8'	Total/NA	Solid	537 (modified)	435321

General Chemistry

Analysis Batch: 431004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66591-1	PFAS-5 3-5'	Total/NA	Solid	D 2216	
320-66591-2	PFAS-8 6-8'	Total/NA	Solid	D 2216	
320-66591-3	PFAS-7 4-6'	Total/NA	Solid	D 2216	
320-66591-4	PFAS-6 5-7'	Total/NA	Solid	D 2216	
320-66591-5	PFAS-4 6-8'	Total/NA	Solid	D 2216	
320-66591-6	PFAS-3 4-6'	Total/NA	Solid	D 2216	
320-66591-7	PFAS-2 2-4'	Total/NA	Solid	D 2216	
320-66591-8	PFAS-1 3-4'	Total/NA	Solid	D 2216	
320-66591-1 DU	PFAS-5 3-5'	Total/NA	Solid	D 2216	

Client Sample ID: PFAS-5 3-5'
Date Collected: 11/10/20 08:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-5 3-5'
Date Collected: 11/10/20 08:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-1
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.44 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 07:10	S1M	TAL SAC

Client Sample ID: PFAS-8 6-8'
Date Collected: 11/10/20 08:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-8 6-8'
Date Collected: 11/10/20 08:55
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-2
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.22 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 07:19	S1M	TAL SAC

Client Sample ID: PFAS-7 4-6'
Date Collected: 11/10/20 09:20
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-7 4-6'
Date Collected: 11/10/20 09:20
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-3
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.17 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 07:28	S1M	TAL SAC

Client Sample ID: PFAS-6 5-7'
Date Collected: 11/10/20 09:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-6 5-7'
Lab Sample ID: 320-66591-4
Date Collected: 11/10/20 09:15
Matrix: Solid
Date Received: 11/11/20 09:30
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.24 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 07:38	S1M	TAL SAC

Client Sample ID: PFAS-4 6-8'
Lab Sample ID: 320-66591-5
Date Collected: 11/10/20 10:05
Matrix: Solid
Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-4 6-8'
Lab Sample ID: 320-66591-5
Date Collected: 11/10/20 10:05
Matrix: Solid
Date Received: 11/11/20 09:30
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			2.76 g	10.00 mL	435321	11/24/20 19:24	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1			436008	11/27/20 16:27	K1S	TAL SAC

Client Sample ID: PFAS-3 4-6'
Lab Sample ID: 320-66591-6
Date Collected: 11/10/20 10:25
Matrix: Solid
Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-3 4-6'
Lab Sample ID: 320-66591-6
Date Collected: 11/10/20 10:25
Matrix: Solid
Date Received: 11/11/20 09:30
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.12 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 08:34	S1M	TAL SAC

Client Sample ID: PFAS-2 2-4'
Lab Sample ID: 320-66591-7
Date Collected: 11/10/20 10:40
Matrix: Solid
Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: PFAS-2 2-4'
Date Collected: 11/10/20 10:40
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-7
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.10 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 08:43	S1M	TAL SAC

Client Sample ID: PFAS-1 3-4'
Date Collected: 11/10/20 11:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			431004	11/12/20 11:10	KDB	TAL SAC

Client Sample ID: PFAS-1 3-4'
Date Collected: 11/10/20 11:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-8
Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.07 g	10.00 mL	431089	11/12/20 13:42	GWO	TAL SAC
Total/NA	Analysis	537 (modified)		1			434434	11/22/20 08:52	S1M	TAL SAC

Client Sample ID: FB-1
Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.1 mL	10.0 mL	431329	11/13/20 05:03	LB	TAL SAC
Total/NA	Analysis	537 (modified)		1			431623	11/14/20 00:50	RS1	TAL SAC

Client Sample ID: EB-1
Date Collected: 11/10/20 08:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.2 mL	10.0 mL	431329	11/13/20 05:03	LB	TAL SAC
Total/NA	Analysis	537 (modified)		1			431623	11/14/20 01:17	RS1	TAL SAC

Client Sample ID: TB-Soil
Date Collected: 11/10/20 00:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66591-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.6 mL	10.0 mL	431329	11/13/20 05:03	LB	TAL SAC
Total/NA	Analysis	537 (modified)		1			431623	11/14/20 01:27	RS1	TAL SAC

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Client Sample ID: FB-2

Lab Sample ID: 320-66591-12

Date Collected: 11/10/20 10:50

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.2 mL	10.0 mL	431329	11/13/20 05:03	LB	TAL SAC
Total/NA	Analysis	537 (modified)		1			431623	11/14/20 01:36	RS1	TAL SAC

Client Sample ID: EB-2

Lab Sample ID: 320-66591-13

Date Collected: 11/10/20 10:55

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.5 mL	10.0 mL	431329	11/13/20 05:03	LB	TAL SAC
Total/NA	Analysis	537 (modified)		1			431623	11/14/20 01:45	RS1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Job ID: 320-66591-1
Project/Site: RETIA – Saukville, WI 341-020

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	10-31-20 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-1	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66591-1	PFAS-5 3-5'	Solid	11/10/20 08:30	11/11/20 09:30	
320-66591-2	PFAS-8 6-8'	Solid	11/10/20 08:55	11/11/20 09:30	
320-66591-3	PFAS-7 4-6'	Solid	11/10/20 09:20	11/11/20 09:30	
320-66591-4	PFAS-6 5-7'	Solid	11/10/20 09:15	11/11/20 09:30	
320-66591-5	PFAS-4 6-8'	Solid	11/10/20 10:05	11/11/20 09:30	
320-66591-6	PFAS-3 4-6'	Solid	11/10/20 10:25	11/11/20 09:30	
320-66591-7	PFAS-2 2-4'	Solid	11/10/20 10:40	11/11/20 09:30	
320-66591-8	PFAS-1 3-4'	Solid	11/10/20 11:00	11/11/20 09:30	
320-66591-9	FB-1	Water	11/10/20 08:35	11/11/20 09:30	
320-66591-10	EB-1	Water	11/10/20 08:35	11/11/20 09:30	
320-66591-11	TB-Soil	Water	11/10/20 00:00	11/11/20 09:30	
320-66591-12	FB-2	Water	11/10/20 10:50	11/11/20 09:30	
320-66591-13	EB-2	Water	11/10/20 10:55	11/11/20 09:30	

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-86990-39191.1
Client Contact: Mr. Tim Petrick	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 1 of 2
Company: Endpoint Solutions Corp		Analysis Requested		Job #:
Address: 6871 S. Lover's Lane	Due Date Requested:			Preservation Codes:
City: Franklin	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: WI, 53132				
Phone: 414-427-1200(Tel)	PO #: Purchase Order not required 340-020-603			
Email: tim@endpointcorporation.com	WO #:			
Project Name: RETIA – Saukville, WI 341-020	Project #: 50018271			
Site: 340 RAILROAD ST. SAUKVILLE, WI	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
Preservation Code:					N	N	N		
PFAS-5 3-5'	11/10/20	830	G	Solid	N	N	X	1	
~~FB-1~~ PFAS-8 ~~8-10~~ 6-8'		~~835~~		Solid			X	1	
PFAS-7 4-6'		920		Solid			X	1	
PFAS-6 5-7'		945		Solid			X	1	
PFAS-4 6-8'		1005		Solid			X	1	
PFAS-3 4-6'		1025		Solid			X	1	
PFAS-2 2-4'		1040		Solid			X	1	
PFAS-1 3-4'		1100		Solid			X	1	
FB-1		835		Water			X	2	
EB-1		935		Water			X	2	
TB-Soil		—		Water			X	1	

320-66591 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 11/10/20 2330	Company: Endpoint	Received by:	Date/Time: 11-10-20 1600 Company: TA
Relinquished by:	Date/Time: 11-10-20 1700	Company: TA	Received by:	Date/Time: 11 Nov 20 0930 Company: ETAWSAC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: Company:

Custody Seals Intact: △ Yes △ No | Custody Seal No.: 969663

Cooler Temperature(s) °C and Other Remarks: 1.1°C / 0.9°C

Ver: 01/16/2019

NO TIME @ 11/11/20

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11/30/2020

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-86990-39191.2
Client Contact: Mr. Tim Petrick	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 2 of 2
Company: Endpoint Solutions Corp				Job #:

Address: 6871 S. Lover's Lane	Due Date Requested:
City: Franklin	TAT Requested (days):
State, Zip: WI, 53132	
Phone: 414-427-1200(Tel)	PO #: Purchase Order not required
Email: tim@endpointcorporation.com	WO #:
Project Name: RETIA – Saukville, WI 341-020	Project #: 50018271
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
FB-2	11/10/20	1050		Water			X	2	
EB-2	11/10/20	1055		Water			X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/10/20 2330	Company: Endpoint	Received by:	Date/Time: 11-10-20 1600	Company: TA
Relinquished by:	Date/Time: 11-10-20 1700	Company: TA	Received by:	Date/Time: 11 Nov 20 0930	Company: ETAW SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ~~Yes~~ ☐ No	Custody Seal No.: 969663	Cooler Temperature(s) °C and Other Remarks: 1.1°C / 0.9°C

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 320-66591-1

Login Number: 66591
List Number: 1
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	969663
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66586-1
Client Project/Site: RETIA – Saukville, WI 341-020

For:
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Attn: Mr. Tim Petrick

Sandra Fredrick

Authorized for release by:
11/23/2020 3:58:05 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Qualifiers

LCMS

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

Glossary

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

Job ID: 320-66586-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-66586-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Receipt Exceptions
The following sample was received at the laboratory without a sample collection time documented on the chain of custody: TB-WATER (320-66586-8). Sample #8 (1/1) - no time provided on sample.

LCMS
Method 537 (modified): Results for samples (240-139986-V-3-A), (240-139986-W-3-A MS) and (240-139986-S-3-A MSD) were reported from the analysis of a diluted extract due to high concentration and sample matrix interference of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for samples W-45 (320-66586-2) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Several Isotope Dilution Analyte (IDA) recovery are above the method recommended limit for the following sample: (240-139986-V-3-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-4:2 FTS and M2-6:2 FTS the following sample: (240-139986-W-3-A MS). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

Organic Prep
Method 3535: The following samples contain a thin layer of sediments at the bottom of the bottle prior to extraction:W-44 (320-66586-1), W-45 (320-66586-2), W-49 (320-66586-3) and W-8R (320-66586-5). Method Code :3535 PFC Matrix: Water preparation batch 320-432163

Method 3535: The following sample was yellow prior to extraction:W-45 (320-66586-2). Method Code :3535 PFC Matrix:Water preparation batch 320-432163

Method 3535: The following sample was received in 1 mL bottle instead of 250 mL:TB-WATER (320-66586-8). Method Code :3535 PFC Matrix:Water preparation batch 320-432163

Method 3535: During the solid phase extraction process, the following samples contained non-settable particulates which clogged the solid phase extraction column:W-44 (320-66586-1), W-45 (320-66586-2), W-49 (320-66586-3) and W-8R (320-66586-5) Method Code :3535 PFC Matrix:Water preparation batch 320-432163

Method 3535: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: TB-WATER (320-66586-8). Method Code :3535 PFC Matrix:Water preparation batch 320-432163

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

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-44 — Lab Sample ID: 320-66586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	13		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	12		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.2		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.3		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.9		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	20		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.31	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	19		1.8	0.48	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.3	J	4.4	1.2	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.43	J	1.8	0.41	ng/L	1		537 (modified)	Total/NA
10:2 FTS	2.1		1.8	0.59	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-45 — Lab Sample ID: 320-66586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.9	J	4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.4		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.6		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.2		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.4		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	50		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	5.1		1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.0	J	1.8	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	340		9.0	2.4	ng/L	5		537 (modified)	Total/NA

Client Sample ID: W-49 — Lab Sample ID: 320-66586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	72		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	240		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	160		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	180		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	72		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	24		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	11		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.77	J	1.8	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.68	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		1.8	0.48	ng/L	1		537 (modified)	Total/NA
6:2 FTS	5.5		4.4	2.2	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W-49 (Continued) — Lab Sample ID: 320-66586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
8:2 FTS	3.9		1.8	0.41	ng/L	1		537 (modified)	Total/NA
10:2 FTS	5.1		1.8	0.59	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-50 — Lab Sample ID: 320-66586-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	50		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	160		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	110		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	98		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	43		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	10		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.7	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.60	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25		1.8	0.49	ng/L	1		537 (modified)	Total/NA
6:2 FTS	4.8		4.5	2.2	ng/L	1		537 (modified)	Total/NA
8:2 FTS	3.2		1.8	0.41	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-8R — Lab Sample ID: 320-66586-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.20	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	6.2		1.8	0.87	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-1 — Lab Sample ID: 320-66586-6

No Detections.

Client Sample ID: EB-1 — Lab Sample ID: 320-66586-7

No Detections.

Client Sample ID: TB-WATER — Lab Sample ID: 320-66586-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-44
Date Collected: 11/10/20 11:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**15**		4.4	2.1	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoropentanoic acid (PFPeA)	**13**		1.8	0.43	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorohexanoic acid (PFHxA)	**12**		1.8	0.51	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoroheptanoic acid (PFHpA)	**7.2**		1.8	0.22	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorooctanoic acid (PFOA)	**9.3**		1.8	0.75	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorononanoic acid (PFNA)	**1.9**		1.8	0.24	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorobutanesulfonic acid (PFBS)	**3.3**		1.8	0.18	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoropentanesulfonic acid (PFPeS)	**1.9**		1.8	0.27	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorohexanesulfonic acid (PFHxS)	**20**		1.8	0.50	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.31**	**J**	1.8	0.17	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorooctanesulfonic acid (PFOS)	**19**		1.8	0.48	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		11/16/20 12:01	11/19/20 02:37	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		11/16/20 12:01	11/19/20 02:37	1
NEtFOSA	<0.77		1.8	0.77	ng/L		11/16/20 12:01	11/19/20 02:37	1
NMeFOSA	<0.38		1.8	0.38	ng/L		11/16/20 12:01	11/19/20 02:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		11/16/20 12:01	11/19/20 02:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**4.3**	**J**	4.4	1.2	ng/L		11/16/20 12:01	11/19/20 02:37	1
NMeFOSE	<1.2		3.5	1.2	ng/L		11/16/20 12:01	11/19/20 02:37	1
NEtFOSE	<0.75		1.8	0.75	ng/L		11/16/20 12:01	11/19/20 02:37	1
4:2 FTS	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/19/20 02:37	1
6:2 FTS	<2.2		4.4	2.2	ng/L		11/16/20 12:01	11/19/20 02:37	1
8:2 FTS	**0.43**	**J**	1.8	0.41	ng/L		11/16/20 12:01	11/19/20 02:37	1
10:2 FTS	**2.1**		1.8	0.59	ng/L		11/16/20 12:01	11/19/20 02:37	1
DONA	<0.35		1.8	0.35	ng/L		11/16/20 12:01	11/19/20 02:37	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		11/16/20 12:01	11/19/20 02:37	1
F-53B Major	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/19/20 02:37	1
F-53B Minor	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/19/20 02:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*76*		*25 - 150*	*11/16/20 12:01*	*11/19/20 02:37*	*1*
13C5 PFPeA	*87*		*25 - 150*	*11/16/20 12:01*	*11/19/20 02:37*	*1*
13C2 PFHxA	*89*		*25 - 150*	*11/16/20 12:01*	*11/19/20 02:37*	*1*
13C4 PFHpA	*89*		*25 - 150*	*11/16/20 12:01*	*11/19/20 02:37*	*1*
13C4 PFOA	*98*		*25 - 150*	*11/16/20 12:01*	*11/19/20 02:37*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-44
Date Collected: 11/10/20 11:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	91		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C2 PFDA	77		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C2 PFUnA	71		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C2 PFDoA	62		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C2 PFTeDA	67		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C2 PFHxDA	76		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C3 PFBS	91		25 - 150	11/16/20 12:01	11/19/20 02:37	1
18O2 PFHxS	94		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C4 PFOS	89		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C8 FOSA	81		25 - 150	11/16/20 12:01	11/19/20 02:37	1
d3-NMeFOSAA	72		25 - 150	11/16/20 12:01	11/19/20 02:37	1
d5-NEtFOSAA	79		25 - 150	11/16/20 12:01	11/19/20 02:37	1
d-N-MeFOSA-M	45		20 - 150	11/16/20 12:01	11/19/20 02:37	1
d-N-EtFOSA-M	34		20 - 150	11/16/20 12:01	11/19/20 02:37	1
d7-N-MeFOSE-M	25		10 - 120	11/16/20 12:01	11/19/20 02:37	1
d9-N-EtFOSE-M	23		10 - 120	11/16/20 12:01	11/19/20 02:37	1
M2-4:2 FTS	105		25 - 150	11/16/20 12:01	11/19/20 02:37	1
M2-6:2 FTS	119		25 - 150	11/16/20 12:01	11/19/20 02:37	1
M2-8:2 FTS	90		25 - 150	11/16/20 12:01	11/19/20 02:37	1
13C3 HFPO-DA	85		25 - 150	11/16/20 12:01	11/19/20 02:37	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-45
Date Collected: 11/10/20 11:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-2
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.9**	**J**	4.5	2.2	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoropentanoic acid (PFPeA)	**5.4**		1.8	0.44	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorohexanoic acid (PFHxA)	**6.6**		1.8	0.52	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoroheptanoic acid (PFHpA)	**3.8**		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorooctanoic acid (PFOA)	**9.2**		1.8	0.76	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorononanoic acid (PFNA)	**1.1**	**J**	1.8	0.24	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85		1.8	0.85	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.8	0.18	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoropentanesulfonic acid (PFPeS)	**3.4**		1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorohexanesulfonic acid (PFHxS)	**50**		1.8	0.51	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	**5.1**		1.8	0.17	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		11/16/20 12:01	11/17/20 16:09	1
Perfluorooctanesulfonamide (FOSA)	**1.0**	**J**	1.8	0.88	ng/L		11/16/20 12:01	11/17/20 16:09	1
NEtFOSA	<0.78		1.8	0.78	ng/L		11/16/20 12:01	11/17/20 16:09	1
NMeFOSA	<0.39		1.8	0.39	ng/L		11/16/20 12:01	11/17/20 16:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		11/16/20 12:01	11/17/20 16:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		11/16/20 12:01	11/17/20 16:09	1
NMeFOSE	<1.3		3.6	1.3	ng/L		11/16/20 12:01	11/17/20 16:09	1
NEtFOSE	<0.76		1.8	0.76	ng/L		11/16/20 12:01	11/17/20 16:09	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:09	1
6:2 FTS	<2.2		4.5	2.2	ng/L		11/16/20 12:01	11/17/20 16:09	1
8:2 FTS	<0.41		1.8	0.41	ng/L		11/16/20 12:01	11/17/20 16:09	1
10:2 FTS	<0.60		1.8	0.60	ng/L		11/16/20 12:01	11/17/20 16:09	1
DONA	<0.36		1.8	0.36	ng/L		11/16/20 12:01	11/17/20 16:09	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		11/16/20 12:01	11/17/20 16:09	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:09	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*
13C5 PFPeA	*67*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*
13C2 PFHxA	*64*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*
13C4 PFHpA	*62*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*
13C4 PFOA	*60*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*
13C5 PFNA	*53*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:09*	*1*

Client Sample ID: W-45

Date Collected: 11/10/20 11:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-2

Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	53		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C2 PFUnA	45		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C2 PFDoA	40		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C2 PFTeDA	44		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C2 PFHxDA	44		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C3 PFBS	64		25 - 150	11/16/20 12:01	11/17/20 16:09	1
18O2 PFHxS	66		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C4 PFOS	62		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C8 FOSA	57		25 - 150	11/16/20 12:01	11/17/20 16:09	1
d3-NMeFOSAA	45		25 - 150	11/16/20 12:01	11/17/20 16:09	1
d5-NEtFOSAA	43		25 - 150	11/16/20 12:01	11/17/20 16:09	1
d-N-MeFOSA-M	23		20 - 150	11/16/20 12:01	11/17/20 16:09	1
d-N-EtFOSA-M	20		20 - 150	11/16/20 12:01	11/17/20 16:09	1
d7-N-MeFOSE-M	12		10 - 120	11/16/20 12:01	11/17/20 16:09	1
d9-N-EtFOSE-M	11		10 - 120	11/16/20 12:01	11/17/20 16:09	1
M2-4:2 FTS	80		25 - 150	11/16/20 12:01	11/17/20 16:09	1
M2-6:2 FTS	83		25 - 150	11/16/20 12:01	11/17/20 16:09	1
M2-8:2 FTS	62		25 - 150	11/16/20 12:01	11/17/20 16:09	1
13C3 HFPO-DA	61		25 - 150	11/16/20 12:01	11/17/20 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	340		9.0	2.4	ng/L		11/16/20 12:01	11/19/20 02:46	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	58		25 - 150	11/16/20 12:01	11/19/20 02:46	5

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-49

Date Collected: 11/10/20 12:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**72**		4.4	2.1	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoropentanoic acid (PFPeA)	**240**		1.8	0.43	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorohexanoic acid (PFHxA)	**160**		1.8	0.51	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoroheptanoic acid (PFHpA)	**180**		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorooctanoic acid (PFOA)	**72**		1.8	0.75	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorononanoic acid (PFNA)	**24**		1.8	0.24	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorodecanoic acid (PFDA)	**11**		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorododecanoic acid (PFDoA)	**0.77**	**J**	1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorobutanesulfonic acid (PFBS)	**1.5**	**J**	1.8	0.18	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoropentanesulfonic acid (PFPeS)	**0.68**	**J**	1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorohexanesulfonic acid (PFHxS)	**13**		1.8	0.51	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorooctanesulfonic acid (PFOS)	**21**		1.8	0.48	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		11/16/20 12:01	11/17/20 16:18	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		11/16/20 12:01	11/17/20 16:18	1
NEtFOSA	<0.77		1.8	0.77	ng/L		11/16/20 12:01	11/17/20 16:18	1
NMeFOSA	<0.38		1.8	0.38	ng/L		11/16/20 12:01	11/17/20 16:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		11/16/20 12:01	11/17/20 16:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.4	1.2	ng/L		11/16/20 12:01	11/17/20 16:18	1
NMeFOSE	<1.2		3.5	1.2	ng/L		11/16/20 12:01	11/17/20 16:18	1
NEtFOSE	<0.75		1.8	0.75	ng/L		11/16/20 12:01	11/17/20 16:18	1
4:2 FTS	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/17/20 16:18	1
6:2 FTS	**5.5**		4.4	2.2	ng/L		11/16/20 12:01	11/17/20 16:18	1
8:2 FTS	**3.9**		1.8	0.41	ng/L		11/16/20 12:01	11/17/20 16:18	1
10:2 FTS	**5.1**		1.8	0.59	ng/L		11/16/20 12:01	11/17/20 16:18	1
DONA	<0.35		1.8	0.35	ng/L		11/16/20 12:01	11/17/20 16:18	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		11/16/20 12:01	11/17/20 16:18	1
F-53B Major	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/17/20 16:18	1
F-53B Minor	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:18*	*1*
13C5 PFPeA	*70*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:18*	*1*
13C2 PFHxA	*71*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:18*	*1*
13C4 PFHpA	*70*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:18*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-49
Date Collected: 11/10/20 12:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	70		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C5 PFNA	64		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C2 PFDA	61		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C2 PFUnA	58		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C2 PFDoA	46		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C2 PFTeDA	50		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C2 PFHxDA	66		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C3 PFBS	75		25 - 150	11/16/20 12:01	11/17/20 16:18	1
18O2 PFHxS	76		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C4 PFOS	74		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C8 FOSA	67		25 - 150	11/16/20 12:01	11/17/20 16:18	1
d3-NMeFOSAA	54		25 - 150	11/16/20 12:01	11/17/20 16:18	1
d5-NEtFOSAA	56		25 - 150	11/16/20 12:01	11/17/20 16:18	1
d-N-MeFOSA-M	32		20 - 150	11/16/20 12:01	11/17/20 16:18	1
d-N-EtFOSA-M	28		20 - 150	11/16/20 12:01	11/17/20 16:18	1
d7-N-MeFOSE-M	22		10 - 120	11/16/20 12:01	11/17/20 16:18	1
d9-N-EtFOSE-M	19		10 - 120	11/16/20 12:01	11/17/20 16:18	1
M2-4:2 FTS	91		25 - 150	11/16/20 12:01	11/17/20 16:18	1
M2-6:2 FTS	91		25 - 150	11/16/20 12:01	11/17/20 16:18	1
M2-8:2 FTS	80		25 - 150	11/16/20 12:01	11/17/20 16:18	1
13C3 HFPO-DA	70		25 - 150	11/16/20 12:01	11/17/20 16:18	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-50
Date Collected: 11/10/20 12:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**50**		4.5	2.2	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoropentanoic acid (PFPeA)	**160**		1.8	0.44	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorohexanoic acid (PFHxA)	**110**		1.8	0.52	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoroheptanoic acid (PFHpA)	**98**		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorooctanoic acid (PFOA)	**43**		1.8	0.76	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorononanoic acid (PFNA)	**10**		1.8	0.24	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorodecanoic acid (PFDA)	**1.7**	**J**	1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorobutanesulfonic acid (PFBS)	**1.4**	**J**	1.8	0.18	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoropentanesulfonic acid (PFPeS)	**0.60**	**J**	1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorohexanesulfonic acid (PFHxS)	**13**		1.8	0.51	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorooctanesulfonic acid (PFOS)	**25**		1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		11/16/20 12:01	11/17/20 16:28	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		11/16/20 12:01	11/17/20 16:28	1
NEtFOSA	<0.78		1.8	0.78	ng/L		11/16/20 12:01	11/17/20 16:28	1
NMeFOSA	<0.39		1.8	0.39	ng/L		11/16/20 12:01	11/17/20 16:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.5	1.1	ng/L		11/16/20 12:01	11/17/20 16:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.5	1.2	ng/L		11/16/20 12:01	11/17/20 16:28	1
NMeFOSE	<1.3		3.6	1.3	ng/L		11/16/20 12:01	11/17/20 16:28	1
NEtFOSE	<0.76		1.8	0.76	ng/L		11/16/20 12:01	11/17/20 16:28	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:28	1
6:2 FTS	**4.8**		4.5	2.2	ng/L		11/16/20 12:01	11/17/20 16:28	1
8:2 FTS	**3.2**		1.8	0.41	ng/L		11/16/20 12:01	11/17/20 16:28	1
10:2 FTS	<0.60		1.8	0.60	ng/L		11/16/20 12:01	11/17/20 16:28	1
DONA	<0.36		1.8	0.36	ng/L		11/16/20 12:01	11/17/20 16:28	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		11/16/20 12:01	11/17/20 16:28	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:28	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:28*	*1*
13C5 PFPeA	*73*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:28*	*1*
13C2 PFHxA	*72*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:28*	*1*
13C4 PFHpA	*71*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:28*	*1*
13C4 PFOA	*73*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:28*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-50
Date Collected: 11/10/20 12:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-4
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	67		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C2 PFDA	67		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C2 PFUnA	59		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C2 PFDoA	49		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C2 PFTeDA	54		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C2 PFHxDA	62		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C3 PFBS	75		25 - 150	11/16/20 12:01	11/17/20 16:28	1
18O2 PFHxS	81		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C4 PFOS	74		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C8 FOSA	69		25 - 150	11/16/20 12:01	11/17/20 16:28	1
d3-NMeFOSAA	62		25 - 150	11/16/20 12:01	11/17/20 16:28	1
d5-NEtFOSAA	64		25 - 150	11/16/20 12:01	11/17/20 16:28	1
d-N-MeFOSA-M	52		20 - 150	11/16/20 12:01	11/17/20 16:28	1
d-N-EtFOSA-M	47		20 - 150	11/16/20 12:01	11/17/20 16:28	1
d7-N-MeFOSE-M	27		10 - 120	11/16/20 12:01	11/17/20 16:28	1
d9-N-EtFOSE-M	27		10 - 120	11/16/20 12:01	11/17/20 16:28	1
M2-4:2 FTS	108		25 - 150	11/16/20 12:01	11/17/20 16:28	1
M2-6:2 FTS	100		25 - 150	11/16/20 12:01	11/17/20 16:28	1
M2-8:2 FTS	81		25 - 150	11/16/20 12:01	11/17/20 16:28	1
13C3 HFPO-DA	68		25 - 150	11/16/20 12:01	11/17/20 16:28	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-8R
Date Collected: 11/10/20 12:45
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorobutanesulfonic acid (PFBS)	**0.20**	**J**	1.8	0.18	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		11/16/20 12:01	11/17/20 16:37	1
Perfluorooctanesulfonamide (FOSA)	**6.2**		1.8	0.87	ng/L		11/16/20 12:01	11/17/20 16:37	1
NEtFOSA	<0.77		1.8	0.77	ng/L		11/16/20 12:01	11/17/20 16:37	1
NMeFOSA	<0.38		1.8	0.38	ng/L		11/16/20 12:01	11/17/20 16:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		11/16/20 12:01	11/17/20 16:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.4	1.2	ng/L		11/16/20 12:01	11/17/20 16:37	1
NMeFOSE	<1.2		3.5	1.2	ng/L		11/16/20 12:01	11/17/20 16:37	1
NEtFOSE	<0.75		1.8	0.75	ng/L		11/16/20 12:01	11/17/20 16:37	1
4:2 FTS	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/17/20 16:37	1
6:2 FTS	<2.2		4.4	2.2	ng/L		11/16/20 12:01	11/17/20 16:37	1
8:2 FTS	<0.41		1.8	0.41	ng/L		11/16/20 12:01	11/17/20 16:37	1
10:2 FTS	<0.59		1.8	0.59	ng/L		11/16/20 12:01	11/17/20 16:37	1
DONA	<0.35		1.8	0.35	ng/L		11/16/20 12:01	11/17/20 16:37	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		11/16/20 12:01	11/17/20 16:37	1
F-53B Major	<0.21		1.8	0.21	ng/L		11/16/20 12:01	11/17/20 16:37	1
F-53B Minor	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*70*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:37*	*1*
13C5 PFPeA	*78*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:37*	*1*
13C2 PFHxA	*71*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:37*	*1*
13C4 PFHpA	*69*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:37*	*1*
13C4 PFOA	*71*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:37*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-8R
Date Collected: 11/10/20 12:45
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-5
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	61		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C2 PFDA	57		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C2 PFUnA	52		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C2 PFDoA	47		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C2 PFTeDA	55		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C2 PFHxDA	61		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C3 PFBS	69		25 - 150	11/16/20 12:01	11/17/20 16:37	1
18O2 PFHxS	73		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C4 PFOS	69		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C8 FOSA	66		25 - 150	11/16/20 12:01	11/17/20 16:37	1
d3-NMeFOSAA	54		25 - 150	11/16/20 12:01	11/17/20 16:37	1
d5-NEtFOSAA	56		25 - 150	11/16/20 12:01	11/17/20 16:37	1
d-N-MeFOSA-M	33		20 - 150	11/16/20 12:01	11/17/20 16:37	1
d-N-EtFOSA-M	27		20 - 150	11/16/20 12:01	11/17/20 16:37	1
d7-N-MeFOSE-M	20		10 - 120	11/16/20 12:01	11/17/20 16:37	1
d9-N-EtFOSE-M	18		10 - 120	11/16/20 12:01	11/17/20 16:37	1
M2-4:2 FTS	85		25 - 150	11/16/20 12:01	11/17/20 16:37	1
M2-6:2 FTS	84		25 - 150	11/16/20 12:01	11/17/20 16:37	1
M2-8:2 FTS	68		25 - 150	11/16/20 12:01	11/17/20 16:37	1
13C3 HFPO-DA	65		25 - 150	11/16/20 12:01	11/17/20 16:37	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: FB-1
Date Collected: 11/10/20 11:10
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-6
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.9	2.3	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.91		1.9	0.91	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		11/16/20 12:01	11/17/20 16:46	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		11/16/20 12:01	11/17/20 16:46	1
NEtFOSA	<0.84		1.9	0.84	ng/L		11/16/20 12:01	11/17/20 16:46	1
NMeFOSA	<0.42		1.9	0.42	ng/L		11/16/20 12:01	11/17/20 16:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		4.9	1.2	ng/L		11/16/20 12:01	11/17/20 16:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		4.9	1.3	ng/L		11/16/20 12:01	11/17/20 16:46	1
NMeFOSE	<1.4		3.9	1.4	ng/L		11/16/20 12:01	11/17/20 16:46	1
NEtFOSE	<0.82		1.9	0.82	ng/L		11/16/20 12:01	11/17/20 16:46	1
4:2 FTS	<0.23		1.9	0.23	ng/L		11/16/20 12:01	11/17/20 16:46	1
6:2 FTS	<2.4		4.9	2.4	ng/L		11/16/20 12:01	11/17/20 16:46	1
8:2 FTS	<0.45		1.9	0.45	ng/L		11/16/20 12:01	11/17/20 16:46	1
10:2 FTS	<0.65		1.9	0.65	ng/L		11/16/20 12:01	11/17/20 16:46	1
DONA	<0.39		1.9	0.39	ng/L		11/16/20 12:01	11/17/20 16:46	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		11/16/20 12:01	11/17/20 16:46	1
F-53B Major	<0.23		1.9	0.23	ng/L		11/16/20 12:01	11/17/20 16:46	1
F-53B Minor	<0.31		1.9	0.31	ng/L		11/16/20 12:01	11/17/20 16:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C2 PFHxA	*79*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C4 PFHpA	*75*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C4 PFOA	*76*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C5 PFNA	*69*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*
13C2 PFDA	*68*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:46*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: FB-1
Date Collected: 11/10/20 11:10
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-6
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	69		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C2 PFDoA	64		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C2 PFTeDA	67		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C2 PFHxDA	69		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C3 PFBS	78		25 - 150	11/16/20 12:01	11/17/20 16:46	1
18O2 PFHxS	84		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C4 PFOS	82		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C8 FOSA	76		25 - 150	11/16/20 12:01	11/17/20 16:46	1
d3-NMeFOSAA	72		25 - 150	11/16/20 12:01	11/17/20 16:46	1
d5-NEtFOSAA	78		25 - 150	11/16/20 12:01	11/17/20 16:46	1
d-N-MeFOSA-M	44		20 - 150	11/16/20 12:01	11/17/20 16:46	1
d-N-EtFOSA-M	34		20 - 150	11/16/20 12:01	11/17/20 16:46	1
d7-N-MeFOSE-M	18		10 - 120	11/16/20 12:01	11/17/20 16:46	1
d9-N-EtFOSE-M	18		10 - 120	11/16/20 12:01	11/17/20 16:46	1
M2-4:2 FTS	103		25 - 150	11/16/20 12:01	11/17/20 16:46	1
M2-6:2 FTS	93		25 - 150	11/16/20 12:01	11/17/20 16:46	1
M2-8:2 FTS	83		25 - 150	11/16/20 12:01	11/17/20 16:46	1
13C3 HFPO-DA	73		25 - 150	11/16/20 12:01	11/17/20 16:46	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: EB-1

Date Collected: 11/10/20 11:05
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-7

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		11/16/20 12:01	11/17/20 16:55	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		11/16/20 12:01	11/17/20 16:55	1
NEtFOSA	<0.80		1.8	0.80	ng/L		11/16/20 12:01	11/17/20 16:55	1
NMeFOSA	<0.39		1.8	0.39	ng/L		11/16/20 12:01	11/17/20 16:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		11/16/20 12:01	11/17/20 16:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		11/16/20 12:01	11/17/20 16:55	1
NMeFOSE	<1.3		3.7	1.3	ng/L		11/16/20 12:01	11/17/20 16:55	1
NEtFOSE	<0.78		1.8	0.78	ng/L		11/16/20 12:01	11/17/20 16:55	1
4:2 FTS	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:55	1
6:2 FTS	<2.3		4.6	2.3	ng/L		11/16/20 12:01	11/17/20 16:55	1
8:2 FTS	<0.42		1.8	0.42	ng/L		11/16/20 12:01	11/17/20 16:55	1
10:2 FTS	<0.61		1.8	0.61	ng/L		11/16/20 12:01	11/17/20 16:55	1
DONA	<0.37		1.8	0.37	ng/L		11/16/20 12:01	11/17/20 16:55	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		11/16/20 12:01	11/17/20 16:55	1
F-53B Major	<0.22		1.8	0.22	ng/L		11/16/20 12:01	11/17/20 16:55	1
F-53B Minor	<0.29		1.8	0.29	ng/L		11/16/20 12:01	11/17/20 16:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C5 PFPeA	*84*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C2 PFHxA	*79*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C4 PFHpA	*76*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C4 PFOA	*80*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C5 PFNA	*69*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*
13C2 PFDA	*70*		*25 - 150*	*11/16/20 12:01*	*11/17/20 16:55*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: EB-1
Date Collected: 11/10/20 11:05
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-7
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	68		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C2 PFDoA	63		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C2 PFTeDA	62		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C2 PFHxDA	66		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C3 PFBS	80		25 - 150	11/16/20 12:01	11/17/20 16:55	1
18O2 PFHxS	86		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C4 PFOS	84		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C8 FOSA	73		25 - 150	11/16/20 12:01	11/17/20 16:55	1
d3-NMeFOSAA	72		25 - 150	11/16/20 12:01	11/17/20 16:55	1
d5-NEtFOSAA	72		25 - 150	11/16/20 12:01	11/17/20 16:55	1
d-N-MeFOSA-M	54		20 - 150	11/16/20 12:01	11/17/20 16:55	1
d-N-EtFOSA-M	45		20 - 150	11/16/20 12:01	11/17/20 16:55	1
d7-N-MeFOSE-M	24		10 - 120	11/16/20 12:01	11/17/20 16:55	1
d9-N-EtFOSE-M	22		10 - 120	11/16/20 12:01	11/17/20 16:55	1
M2-4:2 FTS	118		25 - 150	11/16/20 12:01	11/17/20 16:55	1
M2-6:2 FTS	99		25 - 150	11/16/20 12:01	11/17/20 16:55	1
M2-8:2 FTS	87		25 - 150	11/16/20 12:01	11/17/20 16:55	1
13C3 HFPO-DA	74		25 - 150	11/16/20 12:01	11/17/20 16:55	1

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: TB-WATER

Date Collected: 11/10/20 00:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-8

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.9		6.0	2.9	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoropentanoic acid (PFPeA)	<0.59		2.4	0.59	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorohexanoic acid (PFHxA)	<0.69		2.4	0.69	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoroheptanoic acid (PFHpA)	<0.30		2.4	0.30	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorooctanoic acid (PFOA)	<1.0		2.4	1.0	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorononanoic acid (PFNA)	<0.32		2.4	0.32	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorodecanoic acid (PFDA)	<0.37		2.4	0.37	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoroundecanoic acid (PFUnA)	<1.3		2.4	1.3	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorododecanoic acid (PFDoA)	<0.66		2.4	0.66	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorotridecanoic acid (PFTriA)	<1.6		2.4	1.6	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.87		2.4	0.87	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<1.1		2.4	1.1	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoro-n-octadecanoic acid (PFODA)	<1.1		2.4	1.1	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.24		2.4	0.24	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.36		2.4	0.36	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.68		2.4	0.68	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.23		2.4	0.23	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.65		2.4	0.65	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorononanesulfonic acid (PFNS)	<0.44		2.4	0.44	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		2.4	0.38	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorododecanesulfonic acid (PFDoS)	<1.2		2.4	1.2	ng/L		11/16/20 12:01	11/17/20 17:22	1
Perfluorooctanesulfonamide (FOSA)	<1.2		2.4	1.2	ng/L		11/16/20 12:01	11/17/20 17:22	1
NEtFOSA	<1.0		2.4	1.0	ng/L		11/16/20 12:01	11/17/20 17:22	1
NMeFOSA	<0.51		2.4	0.51	ng/L		11/16/20 12:01	11/17/20 17:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.4		6.0	1.4	ng/L		11/16/20 12:01	11/17/20 17:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.6		6.0	1.6	ng/L		11/16/20 12:01	11/17/20 17:22	1
NMeFOSE	<1.7		4.8	1.7	ng/L		11/16/20 12:01	11/17/20 17:22	1
NEtFOSE	<1.0		2.4	1.0	ng/L		11/16/20 12:01	11/17/20 17:22	1
4:2 FTS	<0.29		2.4	0.29	ng/L		11/16/20 12:01	11/17/20 17:22	1
6:2 FTS	<3.0		6.0	3.0	ng/L		11/16/20 12:01	11/17/20 17:22	1
8:2 FTS	<0.55		2.4	0.55	ng/L		11/16/20 12:01	11/17/20 17:22	1
10:2 FTS	<0.80		2.4	0.80	ng/L		11/16/20 12:01	11/17/20 17:22	1
DONA	<0.48		2.4	0.48	ng/L		11/16/20 12:01	11/17/20 17:22	1
HFPO-DA (GenX)	<1.8		4.8	1.8	ng/L		11/16/20 12:01	11/17/20 17:22	1
F-53B Major	<0.29		2.4	0.29	ng/L		11/16/20 12:01	11/17/20 17:22	1
F-53B Minor	<0.38		2.4	0.38	ng/L		11/16/20 12:01	11/17/20 17:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C5 PFPeA	*97*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C2 PFHxA	*94*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C4 PFHpA	*90*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C4 PFOA	*96*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C5 PFNA	*87*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*
13C2 PFDA	*86*		*25 - 150*	*11/16/20 12:01*	*11/17/20 17:22*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: TB-WATER
Date Collected: 11/10/20 00:00
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-8
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	83		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C2 PFDoA	83		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C2 PFTeDA	80		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C2 PFHxDA	89		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C3 PFBS	92		25 - 150	11/16/20 12:01	11/17/20 17:22	1
18O2 PFHxS	100		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C4 PFOS	100		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C8 FOSA	91		25 - 150	11/16/20 12:01	11/17/20 17:22	1
d3-NMeFOSAA	87		25 - 150	11/16/20 12:01	11/17/20 17:22	1
d5-NEtFOSAA	88		25 - 150	11/16/20 12:01	11/17/20 17:22	1
d-N-MeFOSA-M	41		20 - 150	11/16/20 12:01	11/17/20 17:22	1
d-N-EtFOSA-M	33		20 - 150	11/16/20 12:01	11/17/20 17:22	1
d7-N-MeFOSE-M	15		10 - 120	11/16/20 12:01	11/17/20 17:22	1
d9-N-EtFOSE-M	15		10 - 120	11/16/20 12:01	11/17/20 17:22	1
M2-4:2 FTS	129		25 - 150	11/16/20 12:01	11/17/20 17:22	1
M2-6:2 FTS	116		25 - 150	11/16/20 12:01	11/17/20 17:22	1
M2-8:2 FTS	104		25 - 150	11/16/20 12:01	11/17/20 17:22	1
13C3 HFPO-DA	92		25 - 150	11/16/20 12:01	11/17/20 17:22	1

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66586-1	W-44	76	87	89	89	98	91	77	71
320-66586-2	W-45	65	67	64	62	60	53	53	45
320-66586-2 - DL	W-45								
320-66586-3	W-49	68	70	71	70	70	64	61	58
320-66586-4	W-50	78	73	72	71	73	67	67	59
320-66586-5	W-8R	70	78	71	69	71	61	57	52
320-66586-6	FB-1	81	84	79	75	76	69	68	69
320-66586-7	EB-1	86	84	79	76	80	69	70	68
320-66586-8	TB-WATER	102	97	94	90	96	87	86	83
LCS 320-432163/2-A	Lab Control Sample	95	90	91	84	88	77	80	77
MB 320-432163/1-A	Method Blank	109	106	98	101	102	87	91	91

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOSA (25-150)
320-66586-1	W-44	62	67	76	91	94	89	81	72
320-66586-2	W-45	40	44	44	64	66	62	57	45
320-66586-2 - DL	W-45						58		
320-66586-3	W-49	46	50	66	75	76	74	67	54
320-66586-4	W-50	49	54	62	75	81	74	69	62
320-66586-5	W-8R	47	55	61	69	73	69	66	54
320-66586-6	FB-1	64	67	69	78	84	82	76	72
320-66586-7	EB-1	63	62	66	80	86	84	73	72
320-66586-8	TB-WATER	83	80	89	92	100	100	91	87
LCS 320-432163/2-A	Lab Control Sample	78	76	81	93	92	95	87	75
MB 320-432163/1-A	Method Blank	83	92	90	100	108	111	97	86

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOSA (25-150)	dMeFOSAA (20-150)	dEtFOSAA (20-150)	NMFM (10-120)	NEFM (10-120)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-66586-1	W-44	79	45	34	25	23	105	119	90
320-66586-2	W-45	43	23	20	12	11	80	83	62
320-66586-2 - DL	W-45								
320-66586-3	W-49	56	32	28	22	19	91	91	80
320-66586-4	W-50	64	52	47	27	27	108	100	81
320-66586-5	W-8R	56	33	27	20	18	85	84	68
320-66586-6	FB-1	78	44	34	18	18	103	93	83
320-66586-7	EB-1	72	54	45	24	22	118	99	87
320-66586-8	TB-WATER	88	41	33	15	15	129	116	104
LCS 320-432163/2-A	Lab Control Sample	76	54	42	20	19	106	104	104
MB 320-432163/1-A	Method Blank	92	66	46	22	18	135	130	124

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-66586-1	W-44	85
320-66586-2	W-45	61
320-66586-2 - DL	W-45	
320-66586-3	W-49	70
320-66586-4	W-50	68
320-66586-5	W-8R	65
320-66586-6	FB-1	73

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 320-66586-1
Project/Site: RETIA – Saukville, WI 341-020

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**HFPODA (25-150)**
320-66586-7	EB-1	74
320-66586-8	TB-WATER	92
LCS 320-432163/2-A	Lab Control Sample	85
MB 320-432163/1-A	Method Blank	95

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-432163/1-A
Matrix: Water
Analysis Batch: 432568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 432163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		11/16/20 12:01	11/17/20 15:33	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		11/16/20 12:01	11/17/20 15:33	1
NEtFOSA	<0.87		2.0	0.87	ng/L		11/16/20 12:01	11/17/20 15:33	1
NMeFOSA	<0.43		2.0	0.43	ng/L		11/16/20 12:01	11/17/20 15:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		11/16/20 12:01	11/17/20 15:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		11/16/20 12:01	11/17/20 15:33	1
NMeFOSE	<1.4		4.0	1.4	ng/L		11/16/20 12:01	11/17/20 15:33	1
NEtFOSE	<0.85		2.0	0.85	ng/L		11/16/20 12:01	11/17/20 15:33	1
4:2 FTS	<0.24		2.0	0.24	ng/L		11/16/20 12:01	11/17/20 15:33	1
6:2 FTS	<2.5		5.0	2.5	ng/L		11/16/20 12:01	11/17/20 15:33	1
8:2 FTS	<0.46		2.0	0.46	ng/L		11/16/20 12:01	11/17/20 15:33	1
10:2 FTS	<0.67		2.0	0.67	ng/L		11/16/20 12:01	11/17/20 15:33	1
DONA	<0.40		2.0	0.40	ng/L		11/16/20 12:01	11/17/20 15:33	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		11/16/20 12:01	11/17/20 15:33	1
F-53B Major	<0.24		2.0	0.24	ng/L		11/16/20 12:01	11/17/20 15:33	1
F-53B Minor	<0.32		2.0	0.32	ng/L		11/16/20 12:01	11/17/20 15:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*109*		*25 - 150*	*11/16/20 12:01*	*11/17/20 15:33*	*1*
13C5 PFPeA	*106*		*25 - 150*	*11/16/20 12:01*	*11/17/20 15:33*	*1*
13C2 PFHxA	*98*		*25 - 150*	*11/16/20 12:01*	*11/17/20 15:33*	*1*
13C4 PFHpA	*101*		*25 - 150*	*11/16/20 12:01*	*11/17/20 15:33*	*1*
13C4 PFOA	*102*		*25 - 150*	*11/16/20 12:01*	*11/17/20 15:33*	*1*

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

Lab Sample ID: MB 320-432163/1-A
Matrix: Water
Analysis Batch: 432568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 432163

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	87		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C2 PFDA	91		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C2 PFUnA	91		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C2 PFDoA	83		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C2 PFTeDA	92		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C2 PFHxDA	90		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C3 PFBS	100		25 - 150	11/16/20 12:01	11/17/20 15:33	1
18O2 PFHxS	108		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C4 PFOS	111		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C8 FOSA	97		25 - 150	11/16/20 12:01	11/17/20 15:33	1
d3-NMeFOSAA	86		25 - 150	11/16/20 12:01	11/17/20 15:33	1
d5-NEtFOSAA	92		25 - 150	11/16/20 12:01	11/17/20 15:33	1
d-N-MeFOSA-M	66		20 - 150	11/16/20 12:01	11/17/20 15:33	1
d-N-EtFOSA-M	46		20 - 150	11/16/20 12:01	11/17/20 15:33	1
d7-N-MeFOSE-M	22		10 - 120	11/16/20 12:01	11/17/20 15:33	1
d9-N-EtFOSE-M	18		10 - 120	11/16/20 12:01	11/17/20 15:33	1
M2-4:2 FTS	135		25 - 150	11/16/20 12:01	11/17/20 15:33	1
M2-6:2 FTS	130		25 - 150	11/16/20 12:01	11/17/20 15:33	1
M2-8:2 FTS	124		25 - 150	11/16/20 12:01	11/17/20 15:33	1
13C3 HFPO-DA	95		25 - 150	11/16/20 12:01	11/17/20 15:33	1

Lab Sample ID: LCS 320-432163/2-A
Matrix: Water
Analysis Batch: 432568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.3		ng/L		108	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	42.0		ng/L		105	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	39.1		ng/L		98	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	42.6		ng/L		107	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	39.6		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	40.0	48.2		ng/L		120	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	44.5		ng/L		111	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	50.1		ng/L		125	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	44.2		ng/L		111	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	45.6		ng/L		114	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	49.0		ng/L		123	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	41.9		ng/L		105	76 - 136
Perfluoro-n-octadecanoic acid (PFODA)	40.0	48.0		ng/L		120	58 - 145
Perfluorobutanesulfonic acid (PFBS)	35.4	35.5		ng/L		100	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.1		ng/L		110	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.5		ng/L		100	59 - 119

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

Lab Sample ID: LCS 320-432163/2-A
Matrix: Water
Analysis Batch: 432568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	39.6		ng/L		107	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	36.5		ng/L		95	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	32.9		ng/L		85	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	32.8		ng/L		85	67 - 127
Perfluorooctanesulfonamide (FOSA)	40.0	42.0		ng/L		105	73 - 133
NMeFOSA	40.0	42.7		ng/L		107	67 - 154
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.6		ng/L		114	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	46.3		ng/L		116	76 - 136
NMeFOSE	40.0	42.1		ng/L		105	70 - 130
NEtFOSE	40.0	39.7		ng/L		99	71 - 131
4:2 FTS	37.4	39.7		ng/L		106	79 - 139
6:2 FTS	37.9	33.6		ng/L		89	59 - 175
8:2 FTS	38.3	37.4		ng/L		97	75 - 135
10:2 FTS	38.6	36.8		ng/L		95	64 - 142
DONA	37.7	36.9		ng/L		98	79 - 139
HFPO-DA (GenX)	40.0	41.5		ng/L		104	51 - 173
F-53B Major	37.3	35.4		ng/L		95	75 - 135
F-53B Minor	37.7	35.0		ng/L		93	54 - 114

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*95*		*25 - 150*
13C5 PFPeA	*90*		*25 - 150*
13C2 PFHxA	*91*		*25 - 150*
13C4 PFHpA	*84*		*25 - 150*
13C4 PFOA	*88*		*25 - 150*
13C5 PFNA	*77*		*25 - 150*
13C2 PFDA	*80*		*25 - 150*
13C2 PFUnA	*77*		*25 - 150*
13C2 PFDoA	*78*		*25 - 150*
13C2 PFTeDA	*76*		*25 - 150*
13C2 PFHxDA	*81*		*25 - 150*
13C3 PFBS	*93*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*87*		*25 - 150*
d3-NMeFOSAA	*75*		*25 - 150*
d5-NEtFOSAA	*76*		*25 - 150*
d-N-MeFOSA-M	*54*		*20 - 150*
d-N-EtFOSA-M	*42*		*20 - 150*
d7-N-MeFOSE-M	*20*		*10 - 120*
d9-N-EtFOSE-M	*19*		*10 - 120*
M2-4:2 FTS	*106*		*25 - 150*

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

Lab Sample ID: LCS 320-432163/2-A
Matrix: Water
Analysis Batch: 432568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432163

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	104		25 - 150
13C3 HFPO-DA	85		25 - 150

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

LCMS

Prep Batch: 432163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66586-1	W-44	Total/NA	Water	3535	
320-66586-2 - DL	W-45	Total/NA	Water	3535	
320-66586-2	W-45	Total/NA	Water	3535	
320-66586-3	W-49	Total/NA	Water	3535	
320-66586-4	W-50	Total/NA	Water	3535	
320-66586-5	W-8R	Total/NA	Water	3535	
320-66586-6	FB-1	Total/NA	Water	3535	
320-66586-7	EB-1	Total/NA	Water	3535	
320-66586-8	TB-WATER	Total/NA	Water	3535	
MB 320-432163/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-432163/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 432568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66586-2	W-45	Total/NA	Water	537 (modified)	432163
320-66586-3	W-49	Total/NA	Water	537 (modified)	432163
320-66586-4	W-50	Total/NA	Water	537 (modified)	432163
320-66586-5	W-8R	Total/NA	Water	537 (modified)	432163
320-66586-6	FB-1	Total/NA	Water	537 (modified)	432163
320-66586-7	EB-1	Total/NA	Water	537 (modified)	432163
320-66586-8	TB-WATER	Total/NA	Water	537 (modified)	432163
MB 320-432163/1-A	Method Blank	Total/NA	Water	537 (modified)	432163
LCS 320-432163/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	432163

Analysis Batch: 433526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66586-1	W-44	Total/NA	Water	537 (modified)	432163
320-66586-2 - DL	W-45	Total/NA	Water	537 (modified)	432163

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: W-44
Date Collected: 11/10/20 11:15
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.5 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			433526	11/19/20 02:37	S1M	TAL SAC

Client Sample ID: W-45
Date Collected: 11/10/20 11:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.8 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:09	RS1	TAL SAC
Total/NA	Prep	3535	DL		277.8 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			433526	11/19/20 02:46	S1M	TAL SAC

Client Sample ID: W-49
Date Collected: 11/10/20 12:30
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.7 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:18	RS1	TAL SAC

Client Sample ID: W-50
Date Collected: 11/10/20 12:35
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.2 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:28	RS1	TAL SAC

Client Sample ID: W-8R
Date Collected: 11/10/20 12:45
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.6 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:37	RS1	TAL SAC

Client Sample ID: FB-1
Date Collected: 11/10/20 11:10
Date Received: 11/11/20 09:30

Lab Sample ID: 320-66586-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			257.7 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:46	RS1	TAL SAC

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Client Sample ID: EB-1

Lab Sample ID: 320-66586-7

Date Collected: 11/10/20 11:05

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 16:55	RS1	TAL SAC

Client Sample ID: TB-WATER

Lab Sample ID: 320-66586-8

Date Collected: 11/10/20 00:00

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			209 mL	10.00 mL	432163	11/16/20 12:01	LA	TAL SAC
Total/NA	Analysis	537 (modified)		1			432568	11/17/20 17:22	RS1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Job ID: 320-66586-1
Project/Site: RETIA – Saukville, WI 341-020

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Method Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA – Saukville, WI 341-020

Job ID: 320-66586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66586-1	W-44	Water	11/10/20 11:15	11/11/20 09:30	
320-66586-2	W-45	Water	11/10/20 11:35	11/11/20 09:30	
320-66586-3	W-49	Water	11/10/20 12:30	11/11/20 09:30	
320-66586-4	W-50	Water	11/10/20 12:35	11/11/20 09:30	
320-66586-5	W-8R	Water	11/10/20 12:45	11/11/20 09:30	
320-66586-6	FB-1	Water	11/10/20 11:10	11/11/20 09:30	
320-66586-7	EB-1	Water	11/10/20 11:05	11/11/20 09:30	
320-66586-8	TB-WATER	Water	11/10/20 00:00	11/11/20 09:30	

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-86991-39192.1
Client Contact: Mr. Tim Petrick	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 1 of 1
Company: Endpoint Solutions Corp				Job #:
Address: 6871 S. Lover's Lane	Due Date Requested:			
City: Franklin	TAT Requested (days):			
State, Zip: WI, 53132				
Phone: 414-427-1200(Tel)	PO #: Purchase Order not required			
Email: tim@endpointcorporation.com	WO #:			
Project Name: RETIA – Saukville, WI 341-020	Project #: 50018271			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N	N		
W-44	11/10/20	1115	G	Water	N	N	X	2	
W-45		1135		Water	N	N	X	2	
W-49		1230		Water	N	N	X	2	
W-50		1235		Water	N	N	X	2	
W-8R		1245		Water	N	N	X	2	
FB-1		1110		Water			X	1	
EB-1		1105		Water			X	2	
TB-WATER		—		Water			X		

320-66586 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 11/11/20 230	Company: Endpoint	Received by:	Date/Time: 11-10-20 1600	Company: TA		
Relinquished by:	Date/Time: 11-10-20 1700	Company: TA	Received by:	Date/Time: 11 Nov 20 0930	Company: ETAW Shc		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 969663

Cooler Temperature(s) °C and Other Remarks: 1.1°C / 0.9°C

Ver: 01/16/2019

° NO TIME 11/11/20

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 320-66586-1

Login Number: 66586
List Number: 1
Creator: Nelson, Kym D

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	969663
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215473-1
Client Project/Site: Arkema - Saukville 341-022-004

For:
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Attn: Mr. Tim Petrick

Authorized for release by:
5/6/2022 12:44:59 PM

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

Table of Contents

Job ID: 500-215473-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-215473-1

Comments
No additional comments.

Receipt
The samples were received on 4/22/2022 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6º C.

Receipt Exceptions
1 of 2 sample containers for sample: #6 for job# 500-215473 were received. DUP 1 (500-215473-6).

LCMS
Method 537 (modified): Results for samples W-45 (500-215473-3), W-49 (500-215473-4) and DUP 1 (500-215473-6) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were outside acceptance limits. The target analyte results were comparable between the 1X and the 5X analysis. Internal standard is not used in the quantitation of the target analytes, therefore the data is reported.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-584757. Method code: 3535_PFC_28D Matrix: Aqueous

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

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-08r — Lab Sample ID: 500-215473-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-44 — Lab Sample ID: 500-215473-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	54		5.0	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	140		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	200		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	98		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	86		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	6.4		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	13		2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	83		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	4.5		2.0	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	130		2.0	0.54	ng/L	1		537 (modified)	Total/NA
6:2 FTS	45		5.0	2.5	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-45 — Lab Sample ID: 500-215473-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14		4.9	2.4	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	12		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	16		2.0	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.5		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	15		2.0	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.2		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.6		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.4		2.0	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	66		2.0	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.4		2.0	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	380		9.8	2.7	ng/L	5		537 (modified)	Total/NA

Client Sample ID: W-49 — Lab Sample ID: 500-215473-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	150		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	300		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	19		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	7.5		1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.21	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20		1.9	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	44		4.8	2.4	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W-49 (Continued) — Lab Sample ID: 500-215473-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
8:2 FTS	3.3		1.9	0.44	ng/L	1		537 (modified)	Total/NA
10:2 FTS	1.1	J	1.9	0.64	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	560		9.6	2.4	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	460		9.6	2.8	ng/L	5		537 (modified)	Total/NA

Client Sample ID: W-50 — Lab Sample ID: 500-215473-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	38		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	110		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	75		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	54		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	31		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	7.3		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.8	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.6	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.64	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36		1.9	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	5.0		4.8	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	2.1		1.9	0.44	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP 1 — Lab Sample ID: 500-215473-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	140		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	310		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	20		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	7.7		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	19		1.9	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	42		4.6	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	3.3		1.9	0.43	ng/L	1		537 (modified)	Total/NA
10:2 FTS	0.99	J	1.9	0.62	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	610		9.3	2.3	ng/L	5		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	440		9.3	2.7	ng/L	5		537 (modified)	Total/NA

Client Sample ID: FB-1 — Lab Sample ID: 500-215473-7

No Detections.

Client Sample ID: EB-1 — Lab Sample ID: 500-215473-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Endpoint Solutions Corp
Job ID: 500-215473-1
Project/Site: Arkema - Saukville 341-022-004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-215473-1	W-08r	Water	04/20/22 13:44	04/22/22 09:06
500-215473-2	W-44	Water	04/20/22 10:50	04/22/22 09:06
500-215473-3	W-45	Water	04/20/22 11:43	04/22/22 09:06
500-215473-4	W-49	Water	04/20/22 13:13	04/22/22 09:06
500-215473-5	W-50	Water	04/20/22 12:08	04/22/22 09:06
500-215473-6	DUP 1	Water	04/20/22 13:13	04/22/22 09:06
500-215473-7	FB-1	Water	04/20/22 13:25	04/22/22 09:06
500-215473-9	EB-1	Water	04/20/22 13:22	04/22/22 09:06

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-08r
Date Collected: 04/20/22 13:44
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.89		1.9	0.89	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorobutanesulfonic acid (PFBS)	**1.7**	**J**	1.9	0.19	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		05/03/22 05:03	05/04/22 18:11	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		05/03/22 05:03	05/04/22 18:11	1
NEtFOSA	<0.82		1.9	0.82	ng/L		05/03/22 05:03	05/04/22 18:11	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/03/22 05:03	05/04/22 18:11	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		05/03/22 05:03	05/04/22 18:11	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		05/03/22 05:03	05/04/22 18:11	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/03/22 05:03	05/04/22 18:11	1
NEtFOSE	<0.80		1.9	0.80	ng/L		05/03/22 05:03	05/04/22 18:11	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:11	1
6:2 FTS	<2.4		4.7	2.4	ng/L		05/03/22 05:03	05/04/22 18:11	1
8:2 FTS	<0.43		1.9	0.43	ng/L		05/03/22 05:03	05/04/22 18:11	1
10:2 FTS	<0.63		1.9	0.63	ng/L		05/03/22 05:03	05/04/22 18:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		05/03/22 05:03	05/04/22 18:11	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/03/22 05:03	05/04/22 18:11	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:11	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 18:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C5 PFPeA	*102*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C2 PFHxA	*101*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C4 PFHpA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C4 PFOA	*101*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C5 PFNA	*95*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*
13C2 PFDA	*107*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:11*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-08r
Date Collected: 04/20/22 13:44
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	104		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C2 PFDoA	103		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C2 PFTeDA	107		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C2 PFHxDA	100		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C3 PFBS	108		25 - 150	05/03/22 05:03	05/04/22 18:11	1
18O2 PFHxS	106		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C4 PFOS	99		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C8 FOSA	91		10 - 150	05/03/22 05:03	05/04/22 18:11	1
d3-NMeFOSAA	112		25 - 150	05/03/22 05:03	05/04/22 18:11	1
d5-NEtFOSAA	111		25 - 150	05/03/22 05:03	05/04/22 18:11	1
d-N-MeFOSA-M	82		10 - 150	05/03/22 05:03	05/04/22 18:11	1
d-N-EtFOSA-M	76		10 - 150	05/03/22 05:03	05/04/22 18:11	1
d7-N-MeFOSE-M	82		10 - 150	05/03/22 05:03	05/04/22 18:11	1
d9-N-EtFOSE-M	86		10 - 150	05/03/22 05:03	05/04/22 18:11	1
M2-4:2 FTS	114		25 - 150	05/03/22 05:03	05/04/22 18:11	1
M2-6:2 FTS	121		25 - 150	05/03/22 05:03	05/04/22 18:11	1
M2-8:2 FTS	112		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C3 HFPO-DA	98		25 - 150	05/03/22 05:03	05/04/22 18:11	1
13C2 10:2 FTS	117		25 - 150	05/03/22 05:03	05/04/22 18:11	1

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-44

Date Collected: 04/20/22 10:50
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**54**		5.0	2.4	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoropentanoic acid (PFPeA)	**140**		2.0	0.49	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorohexanoic acid (PFHxA)	**200**		2.0	0.58	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoroheptanoic acid (PFHpA)	**98**		2.0	0.25	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorooctanoic acid (PFOA)	**86**		2.0	0.85	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorononanoic acid (PFNA)	**6.4**		2.0	0.27	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.93		2.0	0.93	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorobutanesulfonic acid (PFBS)	**12**		2.0	0.20	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoropentanesulfonic acid (PFPeS)	**13**		2.0	0.30	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorohexanesulfonic acid (PFHxS)	**83**		2.0	0.57	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluoroheptanesulfonic acid (PFHpS)	**4.5**		2.0	0.19	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorooctanesulfonic acid (PFOS)	**130**		2.0	0.54	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.96		2.0	0.96	ng/L		05/03/22 05:03	05/04/22 18:21	1
Perfluorooctanesulfonamide (FOSA)	<0.97		2.0	0.97	ng/L		05/03/22 05:03	05/04/22 18:21	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/03/22 05:03	05/04/22 18:21	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/03/22 05:03	05/04/22 18:21	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		05/03/22 05:03	05/04/22 18:21	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		05/03/22 05:03	05/04/22 18:21	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/03/22 05:03	05/04/22 18:21	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/03/22 05:03	05/04/22 18:21	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 18:21	1
6:2 FTS	**45**		5.0	2.5	ng/L		05/03/22 05:03	05/04/22 18:21	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/03/22 05:03	05/04/22 18:21	1
10:2 FTS	<0.67		2.0	0.67	ng/L		05/03/22 05:03	05/04/22 18:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		05/03/22 05:03	05/04/22 18:21	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/03/22 05:03	05/04/22 18:21	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 18:21	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		05/03/22 05:03	05/04/22 18:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*105*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:21*	*1*
13C5 PFPeA	*94*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:21*	*1*
13C2 PFHxA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:21*	*1*
13C4 PFHpA	*107*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:21*	*1*
13C4 PFOA	*102*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:21*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-44
Date Collected: 04/20/22 10:50
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	107		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 PFDA	108		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 PFUnA	108		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 PFDoA	103		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 PFTeDA	107		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 PFHxDA	102		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C3 PFBS	104		25 - 150	05/03/22 05:03	05/04/22 18:21	1
18O2 PFHxS	108		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C4 PFOS	103		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C8 FOSA	91		10 - 150	05/03/22 05:03	05/04/22 18:21	1
d3-NMeFOSAA	101		25 - 150	05/03/22 05:03	05/04/22 18:21	1
d5-NEtFOSAA	110		25 - 150	05/03/22 05:03	05/04/22 18:21	1
d-N-MeFOSA-M	88		10 - 150	05/03/22 05:03	05/04/22 18:21	1
d-N-EtFOSA-M	83		10 - 150	05/03/22 05:03	05/04/22 18:21	1
d7-N-MeFOSE-M	80		10 - 150	05/03/22 05:03	05/04/22 18:21	1
d9-N-EtFOSE-M	77		10 - 150	05/03/22 05:03	05/04/22 18:21	1
M2-4:2 FTS	122		25 - 150	05/03/22 05:03	05/04/22 18:21	1
M2-6:2 FTS	133		25 - 150	05/03/22 05:03	05/04/22 18:21	1
M2-8:2 FTS	124		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C3 HFPO-DA	104		25 - 150	05/03/22 05:03	05/04/22 18:21	1
13C2 10:2 FTS	122		25 - 150	05/03/22 05:03	05/04/22 18:21	1

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-45

Date Collected: 04/20/22 11:43
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**14**		4.9	2.4	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoropentanoic acid (PFPeA)	**12**		2.0	0.48	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorohexanoic acid (PFHxA)	**16**		2.0	0.57	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoroheptanoic acid (PFHpA)	**7.5**		2.0	0.25	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorooctanoic acid (PFOA)	**15**		2.0	0.83	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorononanoic acid (PFNA)	**2.2**		2.0	0.27	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	0.30	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	0.54	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.72		2.0	0.72	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.87		2.0	0.87	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.92		2.0	0.92	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorobutanesulfonic acid (PFBS)	**5.6**		2.0	0.20	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoropentanesulfonic acid (PFPeS)	**5.4**		2.0	0.29	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorohexanesulfonic acid (PFHxS)	**66**		2.0	0.56	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluoroheptanesulfonic acid (PFHpS)	**7.4**		2.0	0.19	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorononanesulfonic acid (PFNS)	<0.36		2.0	0.36	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		2.0	0.31	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.95		2.0	0.95	ng/L		05/03/22 05:03	05/04/22 18:32	1
Perfluorooctanesulfonamide (FOSA)	<0.96		2.0	0.96	ng/L		05/03/22 05:03	05/04/22 18:32	1
NEtFOSA	<0.85		2.0	0.85	ng/L		05/03/22 05:03	05/04/22 18:32	1
NMeFOSA	<0.42		2.0	0.42	ng/L		05/03/22 05:03	05/04/22 18:32	1
NMeFOSAA	<1.2		4.9	1.2	ng/L		05/03/22 05:03	05/04/22 18:32	1
NEtFOSAA	<1.3		4.9	1.3	ng/L		05/03/22 05:03	05/04/22 18:32	1
NMeFOSE	<1.4		3.9	1.4	ng/L		05/03/22 05:03	05/04/22 18:32	1
NEtFOSE	<0.83		2.0	0.83	ng/L		05/03/22 05:03	05/04/22 18:32	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 18:32	1
6:2 FTS	<2.5		4.9	2.5	ng/L		05/03/22 05:03	05/04/22 18:32	1
8:2 FTS	<0.45		2.0	0.45	ng/L		05/03/22 05:03	05/04/22 18:32	1
10:2 FTS	<0.66		2.0	0.66	ng/L		05/03/22 05:03	05/04/22 18:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		2.0	0.39	ng/L		05/03/22 05:03	05/04/22 18:32	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		05/03/22 05:03	05/04/22 18:32	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 18:32	1
11Cl-PF3OUdS	<0.31		2.0	0.31	ng/L		05/03/22 05:03	05/04/22 18:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C5 PFPeA	*92*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C2 PFHxA	*98*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C4 PFHpA	*101*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C4 PFOA	*98*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C5 PFNA	*95*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*
13C2 PFDA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:32*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-45
Date Collected: 04/20/22 11:43
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	93		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C2 PFDoA	98		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C2 PFTeDA	99		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C2 PFHxDA	95		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C3 PFBS	111		25 - 150	05/03/22 05:03	05/04/22 18:32	1
18O2 PFHxS	97		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C4 PFOS	87		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C8 FOSA	83		10 - 150	05/03/22 05:03	05/04/22 18:32	1
d3-NMeFOSAA	104		25 - 150	05/03/22 05:03	05/04/22 18:32	1
d5-NEtFOSAA	102		25 - 150	05/03/22 05:03	05/04/22 18:32	1
d-N-MeFOSA-M	81		10 - 150	05/03/22 05:03	05/04/22 18:32	1
d-N-EtFOSA-M	74		10 - 150	05/03/22 05:03	05/04/22 18:32	1
d7-N-MeFOSE-M	75		10 - 150	05/03/22 05:03	05/04/22 18:32	1
d9-N-EtFOSE-M	80		10 - 150	05/03/22 05:03	05/04/22 18:32	1
M2-4:2 FTS	103		25 - 150	05/03/22 05:03	05/04/22 18:32	1
M2-6:2 FTS	110		25 - 150	05/03/22 05:03	05/04/22 18:32	1
M2-8:2 FTS	108		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C3 HFPO-DA	93		25 - 150	05/03/22 05:03	05/04/22 18:32	1
13C2 10:2 FTS	114		25 - 150	05/03/22 05:03	05/04/22 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	380		9.8	2.7	ng/L		05/03/22 05:03	05/05/22 18:58	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	105		25 - 150	05/03/22 05:03	05/05/22 18:58	5

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-49

Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**150**		4.8	2.3	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoroheptanoic acid (PFHpA)	**300**		1.9	0.24	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorooctanoic acid (PFOA)	**100**		1.9	0.82	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorononanoic acid (PFNA)	**19**		1.9	0.26	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorodecanoic acid (PFDA)	**7.5**		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorobutanesulfonic acid (PFBS)	**2.3**		1.9	0.19	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoropentanesulfonic acid (PFPeS)	**1.2**	**J**	1.9	0.29	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorohexanesulfonic acid (PFHxS)	**14**		1.9	0.55	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.21**	**J**	1.9	0.18	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorooctanesulfonic acid (PFOS)	**20**		1.9	0.52	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		05/03/22 05:03	05/04/22 18:42	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		05/03/22 05:03	05/04/22 18:42	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/03/22 05:03	05/04/22 18:42	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/03/22 05:03	05/04/22 18:42	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		05/03/22 05:03	05/04/22 18:42	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		05/03/22 05:03	05/04/22 18:42	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/03/22 05:03	05/04/22 18:42	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/03/22 05:03	05/04/22 18:42	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:42	1
6:2 FTS	**44**		4.8	2.4	ng/L		05/03/22 05:03	05/04/22 18:42	1
8:2 FTS	**3.3**		1.9	0.44	ng/L		05/03/22 05:03	05/04/22 18:42	1
10:2 FTS	**1.1**	**J**	1.9	0.64	ng/L		05/03/22 05:03	05/04/22 18:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		05/03/22 05:03	05/04/22 18:42	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/03/22 05:03	05/04/22 18:42	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:42	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		05/03/22 05:03	05/04/22 18:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C5 PFPeA	*87*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C2 PFHxA	*100*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C4 PFHpA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C4 PFOA	*100*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C5 PFNA	*94*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*
13C2 PFDA	*100*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:42*	*1*

Client Sample ID: W-49
Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-4
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	108		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C2 PFDoA	101		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C2 PFTeDA	101		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C2 PFHxDA	93		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C3 PFBS	104		25 - 150	05/03/22 05:03	05/04/22 18:42	1
18O2 PFHxS	98		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C4 PFOS	87		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C8 FOSA	85		10 - 150	05/03/22 05:03	05/04/22 18:42	1
d3-NMeFOSAA	100		25 - 150	05/03/22 05:03	05/04/22 18:42	1
d5-NEtFOSAA	110		25 - 150	05/03/22 05:03	05/04/22 18:42	1
d-N-MeFOSA-M	83		10 - 150	05/03/22 05:03	05/04/22 18:42	1
d-N-EtFOSA-M	77		10 - 150	05/03/22 05:03	05/04/22 18:42	1
d7-N-MeFOSE-M	73		10 - 150	05/03/22 05:03	05/04/22 18:42	1
d9-N-EtFOSE-M	79		10 - 150	05/03/22 05:03	05/04/22 18:42	1
M2-4:2 FTS	121		25 - 150	05/03/22 05:03	05/04/22 18:42	1
M2-6:2 FTS	105		25 - 150	05/03/22 05:03	05/04/22 18:42	1
M2-8:2 FTS	108		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C3 HFPO-DA	95		25 - 150	05/03/22 05:03	05/04/22 18:42	1
13C2 10:2 FTS	112		25 - 150	05/03/22 05:03	05/04/22 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	560		9.6	2.4	ng/L		05/03/22 05:03	05/05/22 19:08	5
Perfluorohexanoic acid (PFHxA)	460		9.6	2.8	ng/L		05/03/22 05:03	05/05/22 19:08	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	96		25 - 150	05/03/22 05:03	05/05/22 19:08	5
13C2 PFHxA	91		25 - 150	05/03/22 05:03	05/05/22 19:08	5

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-50
Date Collected: 04/20/22 12:08
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**38**		4.8	2.3	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoropentanoic acid (PFPeA)	**110**		1.9	0.47	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorohexanoic acid (PFHxA)	**75**		1.9	0.56	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoroheptanoic acid (PFHpA)	**54**		1.9	0.24	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorooctanoic acid (PFOA)	**31**		1.9	0.82	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorononanoic acid (PFNA)	**7.3**		1.9	0.26	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorodecanoic acid (PFDA)	**1.8**	**J**	1.9	0.30	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.91		1.9	0.91	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorobutanesulfonic acid (PFBS)	**2.5**		1.9	0.19	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoropentanesulfonic acid (PFPeS)	**1.6**	**J**	1.9	0.29	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorohexanesulfonic acid (PFHxS)	**21**		1.9	0.55	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.64**	**J**	1.9	0.18	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorooctanesulfonic acid (PFOS)	**36**		1.9	0.52	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		05/03/22 05:03	05/04/22 18:53	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		05/03/22 05:03	05/04/22 18:53	1
NEtFOSA	<0.84		1.9	0.84	ng/L		05/03/22 05:03	05/04/22 18:53	1
NMeFOSA	<0.42		1.9	0.42	ng/L		05/03/22 05:03	05/04/22 18:53	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		05/03/22 05:03	05/04/22 18:53	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		05/03/22 05:03	05/04/22 18:53	1
NMeFOSE	<1.4		3.9	1.4	ng/L		05/03/22 05:03	05/04/22 18:53	1
NEtFOSE	<0.82		1.9	0.82	ng/L		05/03/22 05:03	05/04/22 18:53	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:53	1
6:2 FTS	**5.0**		4.8	2.4	ng/L		05/03/22 05:03	05/04/22 18:53	1
8:2 FTS	**2.1**		1.9	0.44	ng/L		05/03/22 05:03	05/04/22 18:53	1
10:2 FTS	<0.65		1.9	0.65	ng/L		05/03/22 05:03	05/04/22 18:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		05/03/22 05:03	05/04/22 18:53	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		05/03/22 05:03	05/04/22 18:53	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 18:53	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		05/03/22 05:03	05/04/22 18:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:53*	*1*
13C5 PFPeA	*97*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:53*	*1*
13C2 PFHxA	*106*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:53*	*1*
13C4 PFHpA	*106*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:53*	*1*
13C4 PFOA	*108*		*25 - 150*	*05/03/22 05:03*	*05/04/22 18:53*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-50
Date Collected: 04/20/22 12:08
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-5
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	100		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 PFDA	108		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 PFUnA	105		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 PFDoA	104		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 PFTeDA	104		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 PFHxDA	110		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C3 PFBS	113		25 - 150	05/03/22 05:03	05/04/22 18:53	1
18O2 PFHxS	111		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C4 PFOS	94		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C8 FOSA	88		10 - 150	05/03/22 05:03	05/04/22 18:53	1
d3-NMeFOSAA	105		25 - 150	05/03/22 05:03	05/04/22 18:53	1
d5-NEtFOSAA	110		25 - 150	05/03/22 05:03	05/04/22 18:53	1
d-N-MeFOSA-M	86		10 - 150	05/03/22 05:03	05/04/22 18:53	1
d-N-EtFOSA-M	83		10 - 150	05/03/22 05:03	05/04/22 18:53	1
d7-N-MeFOSE-M	87		10 - 150	05/03/22 05:03	05/04/22 18:53	1
d9-N-EtFOSE-M	85		10 - 150	05/03/22 05:03	05/04/22 18:53	1
M2-4:2 FTS	134		25 - 150	05/03/22 05:03	05/04/22 18:53	1
M2-6:2 FTS	121		25 - 150	05/03/22 05:03	05/04/22 18:53	1
M2-8:2 FTS	118		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C3 HFPO-DA	98		25 - 150	05/03/22 05:03	05/04/22 18:53	1
13C2 10:2 FTS	125		25 - 150	05/03/22 05:03	05/04/22 18:53	1

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: DUP 1

Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**140**		4.6	2.2	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoroheptanoic acid (PFHpA)	**310**		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorooctanoic acid (PFOA)	**110**		1.9	0.79	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorononanoic acid (PFNA)	**20**		1.9	0.25	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorodecanoic acid (PFDA)	**7.7**		1.9	0.29	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.9	0.19	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoropentanesulfonic acid (PFPeS)	**1.1**	**J**	1.9	0.28	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorohexanesulfonic acid (PFHxS)	**14**		1.9	0.53	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorooctanesulfonic acid (PFOS)	**19**		1.9	0.50	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		05/03/22 05:03	05/04/22 19:03	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		05/03/22 05:03	05/04/22 19:03	1
NEtFOSA	<0.81		1.9	0.81	ng/L		05/03/22 05:03	05/04/22 19:03	1
NMeFOSA	<0.40		1.9	0.40	ng/L		05/03/22 05:03	05/04/22 19:03	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		05/03/22 05:03	05/04/22 19:03	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		05/03/22 05:03	05/04/22 19:03	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/03/22 05:03	05/04/22 19:03	1
NEtFOSE	<0.79		1.9	0.79	ng/L		05/03/22 05:03	05/04/22 19:03	1
4:2 FTS	<0.22		1.9	0.22	ng/L		05/03/22 05:03	05/04/22 19:03	1
6:2 FTS	**42**		4.6	2.3	ng/L		05/03/22 05:03	05/04/22 19:03	1
8:2 FTS	**3.3**		1.9	0.43	ng/L		05/03/22 05:03	05/04/22 19:03	1
10:2 FTS	**0.99**	**J**	1.9	0.62	ng/L		05/03/22 05:03	05/04/22 19:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		05/03/22 05:03	05/04/22 19:03	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/03/22 05:03	05/04/22 19:03	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		05/03/22 05:03	05/04/22 19:03	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 19:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C5 PFPeA	*86*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C2 PFHxA	*104*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C4 PFHpA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C4 PFOA	*96*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C5 PFNA	*97*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*
13C2 PFDA	*101*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:03*	*1*

Client Sample ID: DUP 1
Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-6
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	104		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C2 PFDoA	93		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C2 PFTeDA	102		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C2 PFHxDA	100		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C3 PFBS	103		25 - 150	05/03/22 05:03	05/04/22 19:03	1
18O2 PFHxS	106		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C4 PFOS	94		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C8 FOSA	93		10 - 150	05/03/22 05:03	05/04/22 19:03	1
d3-NMeFOSAA	95		25 - 150	05/03/22 05:03	05/04/22 19:03	1
d5-NEtFOSAA	103		25 - 150	05/03/22 05:03	05/04/22 19:03	1
d-N-MeFOSA-M	89		10 - 150	05/03/22 05:03	05/04/22 19:03	1
d-N-EtFOSA-M	82		10 - 150	05/03/22 05:03	05/04/22 19:03	1
d7-N-MeFOSE-M	73		10 - 150	05/03/22 05:03	05/04/22 19:03	1
d9-N-EtFOSE-M	79		10 - 150	05/03/22 05:03	05/04/22 19:03	1
M2-4:2 FTS	122		25 - 150	05/03/22 05:03	05/04/22 19:03	1
M2-6:2 FTS	113		25 - 150	05/03/22 05:03	05/04/22 19:03	1
M2-8:2 FTS	108		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C3 HFPO-DA	101		25 - 150	05/03/22 05:03	05/04/22 19:03	1
13C2 10:2 FTS	108		25 - 150	05/03/22 05:03	05/04/22 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	610		9.3	2.3	ng/L		05/03/22 05:03	05/05/22 19:19	5
Perfluorohexanoic acid (PFHxA)	440		9.3	2.7	ng/L		05/03/22 05:03	05/05/22 19:19	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	89		25 - 150	05/03/22 05:03	05/05/22 19:19	5
13C2 PFHxA	103		25 - 150	05/03/22 05:03	05/05/22 19:19	5

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: FB-1

Date Collected: 04/20/22 13:25
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-7

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorohexanoic acid (PFHxA)	<0.55		1.9	0.55	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorooctanoic acid (PFOA)	<0.81		1.9	0.81	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		05/03/22 05:03	05/04/22 19:13	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		05/03/22 05:03	05/04/22 19:13	1
NEtFOSA	<0.83		1.9	0.83	ng/L		05/03/22 05:03	05/04/22 19:13	1
NMeFOSA	<0.41		1.9	0.41	ng/L		05/03/22 05:03	05/04/22 19:13	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		05/03/22 05:03	05/04/22 19:13	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		05/03/22 05:03	05/04/22 19:13	1
NMeFOSE	<1.3		3.8	1.3	ng/L		05/03/22 05:03	05/04/22 19:13	1
NEtFOSE	<0.81		1.9	0.81	ng/L		05/03/22 05:03	05/04/22 19:13	1
4:2 FTS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 19:13	1
6:2 FTS	<2.4		4.8	2.4	ng/L		05/03/22 05:03	05/04/22 19:13	1
8:2 FTS	<0.44		1.9	0.44	ng/L		05/03/22 05:03	05/04/22 19:13	1
10:2 FTS	<0.64		1.9	0.64	ng/L		05/03/22 05:03	05/04/22 19:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		05/03/22 05:03	05/04/22 19:13	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		05/03/22 05:03	05/04/22 19:13	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		05/03/22 05:03	05/04/22 19:13	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		05/03/22 05:03	05/04/22 19:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*113*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C5 PFPeA	*106*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C2 PFHxA	*107*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C4 PFHpA	*101*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C4 PFOA	*99*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C5 PFNA	*105*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C2 PFDA	*98*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*
13C2 PFUnA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:13*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: FB-1
Date Collected: 04/20/22 13:25
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-7
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	103		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C2 PFTeDA	101		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C2 PFHxDA	98		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C3 PFBS	109		25 - 150	05/03/22 05:03	05/04/22 19:13	1
18O2 PFHxS	105		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C4 PFOS	97		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C8 FOSA	88		10 - 150	05/03/22 05:03	05/04/22 19:13	1
d3-NMeFOSAA	108		25 - 150	05/03/22 05:03	05/04/22 19:13	1
d5-NEtFOSAA	111		25 - 150	05/03/22 05:03	05/04/22 19:13	1
d-N-MeFOSA-M	81		10 - 150	05/03/22 05:03	05/04/22 19:13	1
d-N-EtFOSA-M	76		10 - 150	05/03/22 05:03	05/04/22 19:13	1
d7-N-MeFOSE-M	78		10 - 150	05/03/22 05:03	05/04/22 19:13	1
d9-N-EtFOSE-M	81		10 - 150	05/03/22 05:03	05/04/22 19:13	1
M2-4:2 FTS	125		25 - 150	05/03/22 05:03	05/04/22 19:13	1
M2-6:2 FTS	118		25 - 150	05/03/22 05:03	05/04/22 19:13	1
M2-8:2 FTS	111		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C3 HFPO-DA	110		25 - 150	05/03/22 05:03	05/04/22 19:13	1
13C2 10:2 FTS	118		25 - 150	05/03/22 05:03	05/04/22 19:13	1

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: EB-1

Date Collected: 04/20/22 13:22
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-9

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.8	0.28	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.8	0.53	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.8	0.50	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		05/03/22 05:03	05/04/22 19:55	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		05/03/22 05:03	05/04/22 19:55	1
NEtFOSA	<0.80		1.8	0.80	ng/L		05/03/22 05:03	05/04/22 19:55	1
NMeFOSA	<0.40		1.8	0.40	ng/L		05/03/22 05:03	05/04/22 19:55	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		05/03/22 05:03	05/04/22 19:55	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		05/03/22 05:03	05/04/22 19:55	1
NMeFOSE	<1.3		3.7	1.3	ng/L		05/03/22 05:03	05/04/22 19:55	1
NEtFOSE	<0.78		1.8	0.78	ng/L		05/03/22 05:03	05/04/22 19:55	1
4:2 FTS	<0.22		1.8	0.22	ng/L		05/03/22 05:03	05/04/22 19:55	1
6:2 FTS	<2.3		4.6	2.3	ng/L		05/03/22 05:03	05/04/22 19:55	1
8:2 FTS	<0.42		1.8	0.42	ng/L		05/03/22 05:03	05/04/22 19:55	1
10:2 FTS	<0.62		1.8	0.62	ng/L		05/03/22 05:03	05/04/22 19:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		05/03/22 05:03	05/04/22 19:55	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		05/03/22 05:03	05/04/22 19:55	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		05/03/22 05:03	05/04/22 19:55	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		05/03/22 05:03	05/04/22 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C5 PFPeA	*106*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C4 PFHpA	*98*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C4 PFOA	*103*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C5 PFNA	*104*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C2 PFDA	*106*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*
13C2 PFUnA	*109*		*25 - 150*	*05/03/22 05:03*	*05/04/22 19:55*	*1*

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: EB-1
Date Collected: 04/20/22 13:22
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-9
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	101		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C2 PFTeDA	110		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C2 PFHxDA	98		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C3 PFBS	116		25 - 150	05/03/22 05:03	05/04/22 19:55	1
18O2 PFHxS	107		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C4 PFOS	98		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C8 FOSA	87		10 - 150	05/03/22 05:03	05/04/22 19:55	1
d3-NMeFOSAA	113		25 - 150	05/03/22 05:03	05/04/22 19:55	1
d5-NEtFOSAA	124		25 - 150	05/03/22 05:03	05/04/22 19:55	1
d-N-MeFOSA-M	86		10 - 150	05/03/22 05:03	05/04/22 19:55	1
d-N-EtFOSA-M	82		10 - 150	05/03/22 05:03	05/04/22 19:55	1
d7-N-MeFOSE-M	85		10 - 150	05/03/22 05:03	05/04/22 19:55	1
d9-N-EtFOSE-M	84		10 - 150	05/03/22 05:03	05/04/22 19:55	1
M2-4:2 FTS	117		25 - 150	05/03/22 05:03	05/04/22 19:55	1
M2-6:2 FTS	122		25 - 150	05/03/22 05:03	05/04/22 19:55	1
M2-8:2 FTS	112		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C3 HFPO-DA	106		25 - 150	05/03/22 05:03	05/04/22 19:55	1
13C2 10:2 FTS	114		25 - 150	05/03/22 05:03	05/04/22 19:55	1

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Qualifiers

LCMS

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

Glossary

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

LCMS

Prep Batch: 584757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-215473-1	W-08r	Total/NA	Water	3535	
500-215473-2	W-44	Total/NA	Water	3535	
500-215473-3 - DL	W-45	Total/NA	Water	3535	
500-215473-3	W-45	Total/NA	Water	3535	
500-215473-4 - DL	W-49	Total/NA	Water	3535	
500-215473-4	W-49	Total/NA	Water	3535	
500-215473-5	W-50	Total/NA	Water	3535	
500-215473-6 - DL	DUP 1	Total/NA	Water	3535	
500-215473-6	DUP 1	Total/NA	Water	3535	
500-215473-7	FB-1	Total/NA	Water	3535	
500-215473-9	EB-1	Total/NA	Water	3535	
MB 320-584757/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-584757/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-584757/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 585222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-215473-1	W-08r	Total/NA	Water	537 (modified)	584757
500-215473-2	W-44	Total/NA	Water	537 (modified)	584757
500-215473-3	W-45	Total/NA	Water	537 (modified)	584757
500-215473-4	W-49	Total/NA	Water	537 (modified)	584757
500-215473-5	W-50	Total/NA	Water	537 (modified)	584757
500-215473-6	DUP 1	Total/NA	Water	537 (modified)	584757
500-215473-7	FB-1	Total/NA	Water	537 (modified)	584757
500-215473-9	EB-1	Total/NA	Water	537 (modified)	584757
MB 320-584757/1-A	Method Blank	Total/NA	Water	537 (modified)	584757

Analysis Batch: 585445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-215473-3 - DL	W-45	Total/NA	Water	537 (modified)	584757
500-215473-4 - DL	W-49	Total/NA	Water	537 (modified)	584757
500-215473-6 - DL	DUP 1	Total/NA	Water	537 (modified)	584757
LCS 320-584757/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	584757
LCSD 320-584757/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	584757

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-584757/1-A
Matrix: Water
Analysis Batch: 585222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		05/03/22 05:03	05/04/22 17:40	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		05/03/22 05:03	05/04/22 17:40	1
NEtFOSA	<0.87		2.0	0.87	ng/L		05/03/22 05:03	05/04/22 17:40	1
NMeFOSA	<0.43		2.0	0.43	ng/L		05/03/22 05:03	05/04/22 17:40	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		05/03/22 05:03	05/04/22 17:40	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		05/03/22 05:03	05/04/22 17:40	1
NMeFOSE	<1.4		4.0	1.4	ng/L		05/03/22 05:03	05/04/22 17:40	1
NEtFOSE	<0.85		2.0	0.85	ng/L		05/03/22 05:03	05/04/22 17:40	1
4:2 FTS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 17:40	1
6:2 FTS	<2.5		5.0	2.5	ng/L		05/03/22 05:03	05/04/22 17:40	1
8:2 FTS	<0.46		2.0	0.46	ng/L		05/03/22 05:03	05/04/22 17:40	1
10:2 FTS	<0.67		2.0	0.67	ng/L		05/03/22 05:03	05/04/22 17:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		05/03/22 05:03	05/04/22 17:40	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		05/03/22 05:03	05/04/22 17:40	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		05/03/22 05:03	05/04/22 17:40	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		05/03/22 05:03	05/04/22 17:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*
13C5 PFPeA	*104*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*
13C2 PFHxA	*105*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*
13C4 PFHpA	*95*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*
13C4 PFOA	*97*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*
13C5 PFNA	*99*		*25 - 150*	*05/03/22 05:03*	*05/04/22 17:40*	*1*

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

Lab Sample ID: MB 320-584757/1-A
Matrix: Water
Analysis Batch: 585222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584757

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C2 PFUnA	104		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C2 PFDoA	119		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C2 PFTeDA	108		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C2 PFHxDA	94		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C3 PFBS	102		25 - 150	05/03/22 05:03	05/04/22 17:40	1
18O2 PFHxS	110		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C4 PFOS	92		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C8 FOSA	92		10 - 150	05/03/22 05:03	05/04/22 17:40	1
d3-NMeFOSAA	108		25 - 150	05/03/22 05:03	05/04/22 17:40	1
d5-NEtFOSAA	118		25 - 150	05/03/22 05:03	05/04/22 17:40	1
d-N-MeFOSA-M	85		10 - 150	05/03/22 05:03	05/04/22 17:40	1
d-N-EtFOSA-M	80		10 - 150	05/03/22 05:03	05/04/22 17:40	1
d7-N-MeFOSE-M	79		10 - 150	05/03/22 05:03	05/04/22 17:40	1
d9-N-EtFOSE-M	88		10 - 150	05/03/22 05:03	05/04/22 17:40	1
M2-4:2 FTS	103		25 - 150	05/03/22 05:03	05/04/22 17:40	1
M2-6:2 FTS	108		25 - 150	05/03/22 05:03	05/04/22 17:40	1
M2-8:2 FTS	113		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C3 HFPO-DA	90		25 - 150	05/03/22 05:03	05/04/22 17:40	1
13C2 10:2 FTS	124		25 - 150	05/03/22 05:03	05/04/22 17:40	1

Lab Sample ID: LCS 320-584757/2-A
Matrix: Water
Analysis Batch: 585445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	42.4		ng/L		106	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.7		ng/L		107	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.0		ng/L		107	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	43.5		ng/L		109	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	42.9		ng/L		107	60 - 135
Perfluorononanoic acid (PFNA)	40.0	43.9		ng/L		110	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.7		ng/L		109	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.5		ng/L		104	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.9		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	50.3		ng/L		126	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.9		ng/L		107	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	45.6		ng/L		114	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	39.0		ng/L		98	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	39.0		ng/L		110	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	42.5		ng/L		113	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.3		ng/L		97	60 - 135

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

Lab Sample ID: LCS 320-584757/2-A
Matrix: Water
Analysis Batch: 585445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.1	43.7		ng/L		115	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	44.4		ng/L		120	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	45.1		ng/L		117	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	47.2		ng/L		122	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	44.4		ng/L		115	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	48.4		ng/L		121	60 - 135
NEtFOSA	40.0	46.0		ng/L		115	60 - 135
NMeFOSA	40.0	44.9		ng/L		112	60 - 135
NMeFOSAA	40.0	44.4		ng/L		111	60 - 135
NEtFOSAA	40.0	41.7		ng/L		104	60 - 135
NMeFOSE	40.0	51.2		ng/L		128	60 - 135
NEtFOSE	40.0	45.3		ng/L		113	60 - 135
4:2 FTS	37.4	40.7		ng/L		109	60 - 135
6:2 FTS	37.9	40.5		ng/L		107	60 - 135
8:2 FTS	38.3	46.8		ng/L		122	60 - 135
10:2 FTS	38.6	43.1		ng/L		112	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	44.0		ng/L		117	60 - 135
HFPO-DA (GenX)	40.0	42.9		ng/L		107	60 - 135
9Cl-PF3ONS	37.3	42.0		ng/L		113	60 - 135
11Cl-PF3OUdS	37.7	47.8		ng/L		127	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*101*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*100*		*25 - 150*
13C4 PFHpA	*104*		*25 - 150*
13C4 PFOA	*99*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*101*		*25 - 150*
13C2 PFUnA	*109*		*25 - 150*
13C2 PFDoA	*106*		*25 - 150*
13C2 PFTeDA	*109*		*25 - 150*
13C2 PFHxDA	*98*		*25 - 150*
13C3 PFBS	*105*		*25 - 150*
18O2 PFHxS	*104*		*25 - 150*
13C4 PFOS	*96*		*25 - 150*
13C8 FOSA	*83*		*10 - 150*
d3-NMeFOSAA	*107*		*25 - 150*
d5-NEtFOSAA	*117*		*25 - 150*
d-N-MeFOSA-M	*83*		*10 - 150*
d-N-EtFOSA-M	*80*		*10 - 150*
d7-N-MeFOSE-M	*80*		*10 - 150*
d9-N-EtFOSE-M	*79*		*10 - 150*

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

Lab Sample ID: LCS 320-584757/2-A
Matrix: Water
Analysis Batch: 585445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584757

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*99*		*25 - 150*
M2-6:2 FTS	*107*		*25 - 150*
M2-8:2 FTS	*91*		*25 - 150*
13C3 HFPO-DA	*100*		*25 - 150*
13C2 10:2 FTS	*113*		*25 - 150*

Lab Sample ID: LCSD 320-584757/3-A
Matrix: Water
Analysis Batch: 585445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584757

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	43.9		ng/L		110	60 - 135	3	30
Perfluoropentanoic acid (PFPeA)			40.0	44.4		ng/L		111	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)			40.0	45.2		ng/L		113	60 - 135	5	30
Perfluoroheptanoic acid (PFHpA)			40.0	41.1		ng/L		103	60 - 135	6	30
Perfluorooctanoic acid (PFOA)			40.0	42.0		ng/L		105	60 - 135	2	30
Perfluorononanoic acid (PFNA)			40.0	42.8		ng/L		107	60 - 135	3	30
Perfluorodecanoic acid (PFDA)			40.0	40.7		ng/L		102	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	43.6		ng/L		109	60 - 135	5	30
Perfluorododecanoic acid (PFDoA)			40.0	40.7		ng/L		102	60 - 135	7	30
Perfluorotridecanoic acid (PFTrDA)			40.0	50.6		ng/L		126	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.3		ng/L		98	60 - 135	9	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	42.1		ng/L		105	60 - 135	8	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	44.0		ng/L		110	60 - 135	12	30
Perfluorobutanesulfonic acid (PFBS)			35.4	37.3		ng/L		105	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	40.9		ng/L		109	60 - 135	4	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	34.1		ng/L		94	60 - 135	4	30
Perfluoroheptanesulfonic acid (PFHpS)			38.1	40.5		ng/L		106	60 - 135	7	30
Perfluorooctanesulfonic acid (PFOS)			37.1	40.0		ng/L		108	60 - 135	10	30
Perfluorononanesulfonic acid (PFNS)			38.4	40.9		ng/L		106	60 - 135	10	30
Perfluorodecanesulfonic acid (PFDS)			38.6	41.2		ng/L		107	60 - 135	14	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	41.0		ng/L		106	60 - 135	8	30
Perfluorooctanesulfonamide (FOSA)			40.0	45.0		ng/L		112	60 - 135	7	30
NEtFOSA			40.0	44.5		ng/L		111	60 - 135	3	30
NMeFOSA			40.0	45.5		ng/L		114	60 - 135	1	30
NMeFOSAA			40.0	44.3		ng/L		111	60 - 135	0	30
NEtFOSAA			40.0	42.8		ng/L		107	60 - 135	3	30
NMeFOSE			40.0	47.1		ng/L		118	60 - 135	8	30

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

Lab Sample ID: LCSD 320-584757/3-A
Matrix: Water
Analysis Batch: 585445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584757

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSE			40.0	43.0		ng/L		108	60 - 135	5	30
4:2 FTS			37.4	38.1		ng/L		102	60 - 135	7	30
6:2 FTS			37.9	44.6		ng/L		118	60 - 135	10	30
8:2 FTS			38.3	44.1		ng/L		115	60 - 135	6	30
10:2 FTS			38.6	41.8		ng/L		108	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	40.6		ng/L		108	60 - 135	8	30
HFPO-DA (GenX)			40.0	47.7		ng/L		119	60 - 135	11	30
9Cl-PF3ONS			37.3	36.9		ng/L		99	60 - 135	13	30
11Cl-PF3OUdS			37.7	45.8		ng/L		122	60 - 135	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*102*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFHxA	*95*		*25 - 150*
13C4 PFHpA	*102*		*25 - 150*
13C4 PFOA	*99*		*25 - 150*
13C5 PFNA	*103*		*25 - 150*
13C2 PFDA	*104*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*109*		*25 - 150*
13C2 PFTeDA	*112*		*25 - 150*
13C2 PFHxDA	*103*		*25 - 150*
13C3 PFBS	*104*		*25 - 150*
18O2 PFHxS	*105*		*25 - 150*
13C4 PFOS	*101*		*25 - 150*
13C8 FOSA	*88*		*10 - 150*
d3-NMeFOSAA	*105*		*25 - 150*
d5-NEtFOSAA	*112*		*25 - 150*
d-N-MeFOSA-M	*82*		*10 - 150*
d-N-EtFOSA-M	*81*		*10 - 150*
d7-N-MeFOSE-M	*81*		*10 - 150*
d9-N-EtFOSE-M	*81*		*10 - 150*
M2-4:2 FTS	*102*		*25 - 150*
M2-6:2 FTS	*103*		*25 - 150*
M2-8:2 FTS	*104*		*25 - 150*
13C3 HFPO-DA	*96*		*25 - 150*
13C2 10:2 FTS	*109*		*25 - 150*

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Client Sample ID: W-08r
Date Collected: 04/20/22 13:44
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 18:11	RS1	TAL SAC

Client Sample ID: W-44
Date Collected: 04/20/22 10:50
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 18:21	RS1	TAL SAC

Client Sample ID: W-45
Date Collected: 04/20/22 11:43
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 18:32	RS1	TAL SAC
Total/NA	Prep	3535	DL		584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5	585445	05/05/22 18:58	S1M	TAL SAC

Client Sample ID: W-49
Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 18:42	RS1	TAL SAC
Total/NA	Prep	3535	DL		584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5	585445	05/05/22 19:08	S1M	TAL SAC

Client Sample ID: W-50
Date Collected: 04/20/22 12:08
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 18:53	RS1	TAL SAC

Client Sample ID: DUP 1
Date Collected: 04/20/22 13:13
Date Received: 04/22/22 09:06

Lab Sample ID: 500-215473-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 19:03	RS1	TAL SAC

Lab Chronicle

Client: Endpoint Solutions Corp
Job ID: 500-215473-1
Project/Site: Arkema - Saukville 341-022-004

Client Sample ID: DUP 1
Lab Sample ID: 500-215473-6
Date Collected: 04/20/22 13:13
Matrix: Water
Date Received: 04/22/22 09:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5	585445	05/05/22 19:19	S1M	TAL SAC

Client Sample ID: FB-1
Lab Sample ID: 500-215473-7
Date Collected: 04/20/22 13:25
Matrix: Water
Date Received: 04/22/22 09:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 19:13	RS1	TAL SAC

Client Sample ID: EB-1
Lab Sample ID: 500-215473-9
Date Collected: 04/20/22 13:22
Matrix: Water
Date Received: 04/22/22 09:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			584757	05/03/22 05:03	NSS	TAL SAC
Total/NA	Analysis	537 (modified)		1	585222	05/04/22 19:55	RS1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-22
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-23
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-02-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	03-01-22 *
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-22
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

500-215473 COC

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

Chain of Custody Record

America

Client Information			
Client Contact: Mr. Tim Petrick	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):
	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin
Company: Endpoint Solutions Corp	PWSID:		
Address: 6871 S. Lover's Lane	Due Date Requested:		
City: Franklin	TAT Requested (days):		
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No		
Phone: 414-427-1200(Tel)	PO #: 341-022		
Email: tim@endpointcorporation.com	WO #:		
Project Name: Arkema - Saukville 341-022-004	Project #: 50017526		
Site: Arkema - Saukville	SSOW#:		

COC No: 500-100108-43706.1
Page: Page 1 of 1
Job #: 341-022-004

Analysis Requested: PFC_IDA - PFAS (extended) 1154 (36 analytes)

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS (extended) 1154 (36 analytes)	Total Number of containers
				Preservation Code:		X	X		X
1	W-08R	4/20/22	13:44	G	W			X	
2	W-44	4/20/22	10:50	G	W			X	
3	W-45	4/20/22	11:43	G	W			X	
4	W-49	4/20/22	13:13	G	W			X	
5	W-50	4/20/22	12:08	G	W			X	
6	Dup 1	4/20/22	13:13	G	W			X	
7	FB-1	4/20/22	13:25	G	W			X	
8	trip blank	4/20/22		—	W			X	
9	EB-1	4/20/22	13:22	G	W			X	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other: 215473

Special Instructions/Note:

Log + Sub
Shipped Direct

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assesse
☐ Return To Client ☐ Disposal

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | M

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4-21-22 / 12:50	Endpoint Solutions	[signature]	4/21/22 1250	Eur
[signature]	4/21/22 / 1300				

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

Ver: 01/16/2019

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-100108-43706.1
Client Contact: Mr. Tim Petrick	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Endpoint Solutions Corp	PWSID:			Job #: 341-022-004

Address: 6871 S. Lover's Lane	Due Date Requested:	
City: Franklin	TAT Requested (days):	
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No	
Phone: 414-427-1200(Tel)	PO #: 341-022	
Email: tim@endpointcorporation.com	WO #:	
Project Name: Arkema - Saukville 341-022-004	Project #: 50017526	
Site: Arkema - Saukville	SSOW#:	

Analysis Requested

PFC x IDA - PFAS, extended list (36 analytes)

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC x IDA - PFAS, extended list (36 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
W-08R	4/20/22	13:44	G	W			X	2	
W-44	4/20/22	10:50	G	W			X	2	
W-45	4/20/22	11:43	G	W			X	2	
W-49	4/20/22	13:13	G	W			X	2	
W-50	4/20/22	12:08	G	W			X	2	
DUP 1	4/20/22	13:13	G	W			X	2	
FB-1	4/20/22	13:25	G	W			X	2	
trip blank	4/20/22		—	W			X	1	
EB-1	4/20/22	13:22	G	W			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Alexandra Rollins	4-21-22 / 12:50	Endpoint Solution	Received by:	4/21/22 1250	EW
Relinquished by:	4/21/22 / 1300		Received by:	4/22/22 9:55	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1955285

Cooler Temperature(s) °C and Other Remarks: 0.6C

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-215473-1

Login Number: 215473
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-215473-1

Login Number: 215473
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 04/22/22 06:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1955285
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento
Sample Receiving Notes

500-215473 Field Sheet

Job: ____

Tracking # : 577605973780

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other ____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: L-02 Corr. Factor: (+ / -) - °C

Ice 1 Wet 1 Gel ____ Other ____

Cooler Custody Seal: 1955285

Cooler ID: ____

Temp Observed: 0.6 °C Corrected: 0.6 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: KB Date: 4-22-22

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: KB Date: 4/22/22

Notes: Received 1/2 containers for Sample # 6 500-215473

Trizma Lot #(s): ____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☐
Log Release checked in TALS?	☐	☐	☑

Initials: SO Date: 4-26-22

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: Arkema - Saukville 341-022-004

Job ID: 500-215473-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-215473-1	W-08r	90	102	101	103	101	95	107	104
500-215473-2	W-44	105	94	103	107	102	107	108	108
500-215473-3	W-45	95	92	98	101	98	95	103	93
500-215473-3 - DL	W-45								
500-215473-4	W-49	91	87	100	103	100	94	100	108
500-215473-4 - DL	W-49		96	91					
500-215473-5	W-50	94	97	106	106	108	100	108	105
500-215473-6	DUP 1	94	86	104	103	96	97	101	104
500-215473-6 - DL	DUP 1		89	103					
500-215473-7	FB-1	113	106	107	101	99	105	98	103
500-215473-9	EB-1	94	106	105	98	103	104	106	109
LCS 320-584757/2-A	Lab Control Sample	101	98	100	104	99	102	101	109
LCSD 320-584757/3-A	Lab Control Sample Dup	102	93	95	102	99	103	104	106
MB 320-584757/1-A	Method Blank	108	104	105	95	97	99	105	104

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-215473-1	W-08r	103	107	100	108	106	99	91	112
500-215473-2	W-44	103	107	102	104	108	103	91	101
500-215473-3	W-45	98	99	95	111	97	87	83	104
500-215473-3 - DL	W-45						105		
500-215473-4	W-49	101	101	93	104	98	87	85	100
500-215473-4 - DL	W-49								
500-215473-5	W-50	104	104	110	113	111	94	88	105
500-215473-6	DUP 1	93	102	100	103	106	94	93	95
500-215473-6 - DL	DUP 1								
500-215473-7	FB-1	103	101	98	109	105	97	88	108
500-215473-9	EB-1	101	110	98	116	107	98	87	113
LCS 320-584757/2-A	Lab Control Sample	106	109	98	105	104	96	83	107
LCSD 320-584757/3-A	Lab Control Sample Dup	109	112	103	104	105	101	88	105
MB 320-584757/1-A	Method Blank	119	108	94	102	110	92	92	108

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-215473-1	W-08r	111	82	76	82	86	114	121	112
500-215473-2	W-44	110	88	83	80	77	122	133	124
500-215473-3	W-45	102	81	74	75	80	103	110	108
500-215473-3 - DL	W-45								
500-215473-4	W-49	110	83	77	73	79	121	105	108
500-215473-4 - DL	W-49								
500-215473-5	W-50	110	86	83	87	85	134	121	118
500-215473-6	DUP 1	103	89	82	73	79	122	113	108
500-215473-6 - DL	DUP 1								
500-215473-7	FB-1	111	81	76	78	81	125	118	111
500-215473-9	EB-1	124	86	82	85	84	117	122	112
LCS 320-584757/2-A	Lab Control Sample	117	83	80	80	79	99	107	91
LCSD 320-584757/3-A	Lab Control Sample Dup	112	82	81	81	81	102	103	104
MB 320-584757/1-A	Method Blank	118	85	80	79	88	103	108	113

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 500-215473-1
Project/Site: Arkema - Saukville 341-022-004

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)								
500-215473-1	W-08r	98	117								
500-215473-2	W-44	104	122								
500-215473-3	W-45	93	114								
500-215473-3 - DL	W-45										
500-215473-4	W-49	95	112								
500-215473-4 - DL	W-49										
500-215473-5	W-50	98	125								
500-215473-6	DUP 1	101	108								
500-215473-6 - DL	DUP 1										
500-215473-7	FB-1	110	118								
500-215473-9	EB-1	106	114								
LCS 320-584757/2-A	Lab Control Sample	100	113								
LCSD 320-584757/3-A	Lab Control Sample Dup	96	109								
MB 320-584757/1-A	Method Blank	90	124								

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-222051-1
Client Project/Site: RETIA USA LLC - 341-022-009

For:
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Attn: Mr. Robert Cigale

Sandra Fredrick

Authorized for release by:
10/11/2022 1:07:35 PM

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

Table of Contents

Job ID: 500-222051-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-222051-1

Comments
No additional comments.

Receipt
The samples were received on 9/10/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

LCMS
Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-619051 and analytical batch 320-619628 recovered outside control limits for the following analytes:
Perfluoro(2-propoxypropanoic) acid.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was below the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. B-109 (3-4) (500-222051-6)

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

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-619051.
preparation batch 320-619051
Method: 3535 PFC-W
Matrix: Aqueous

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

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-6 (2-4) — Lab Sample ID: 500-222051-1

No Detections.

Client Sample ID: EB-Liner — Lab Sample ID: 500-222051-2

No Detections.

Client Sample ID: EB-Prepack — Lab Sample ID: 500-222051-3

No Detections.

Client Sample ID: B-33 (0-2) — Lab Sample ID: 500-222051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.069	J	0.20	0.042	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: B-45 (6-8) — Lab Sample ID: 500-222051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.048	J	0.22	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.076	J	0.22	0.036	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: B-109 (3-4) — Lab Sample ID: 500-222051-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.13	J	0.26	0.054	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.094	J	0.26	0.041	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.18	J	0.26	0.050	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.078	J	0.26	0.070	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.079	J I	0.26	0.057	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
Moisture	Percent Moisture	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Endpoint Solutions Corp
Job ID: 500-222051-1
Project/Site: RETIA USA LLC - 341-022-009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-222051-1	B-6 (2-4)	Solid	09/08/22 12:00	09/10/22 09:15
500-222051-2	EB-Liner	Water	09/08/22 11:30	09/10/22 09:15
500-222051-3	EB-Prepack	Water	09/08/22 11:45	09/10/22 09:15
500-222051-4	B-33 (0-2)	Solid	09/08/22 13:25	09/10/22 09:15
500-222051-5	B-45 (6-8)	Solid	09/08/22 14:28	09/10/22 09:15
500-222051-6	B-109 (3-4)	Solid	09/08/22 15:40	09/10/22 09:15

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-6 (2-4)
Date Collected: 09/08/22 12:00
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-1
Matrix: Solid
Percent Solids: 81.5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.052		0.23	0.052	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluoropentanoic acid (PFPeA)	<0.047		0.23	0.047	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorohexanoic acid (PFHxA)	<0.035		0.23	0.035	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluoroheptanoic acid (PFHpA)	<0.043		0.23	0.043	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorooctanoic acid (PFOA)	<0.060		0.23	0.060	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorononanoic acid (PFNA)	<0.025		0.23	0.025	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorodecanoic acid (PFDA)	<0.055		0.23	0.055	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluoroundecanoic acid (PFUnA)	<0.048		0.23	0.048	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorododecanoic acid (PFDoA)	<0.034		0.23	0.034	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorotridecanoic acid (PFTrDA)	<0.024		0.23	0.024	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.042		0.23	0.042	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.043		0.23	0.043	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.042		0.23	0.042	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.033		0.23	0.033	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.056		0.23	0.056	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.049		0.23	0.049	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorononanesulfonic acid (PFNS)	<0.033		0.23	0.033	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.059		0.23	0.059	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.053		0.23	0.053	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
Perfluorooctanesulfonamide (FOSA)	<0.038		0.23	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NEtFOSA	<0.053		0.23	0.053	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NMeFOSA	<0.056		0.23	0.056	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NMeFOSAA	<0.026		0.23	0.026	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NEtFOSAA	<0.055		0.23	0.055	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NMeFOSE	<0.053		0.23	0.053	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
NEtFOSE	<0.032		0.23	0.032	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
4:2 FTS	<0.058		0.23	0.058	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
6:2 FTS	<0.031		0.23	0.031	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
8:2 FTS	<0.040		0.23	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.044		0.23	0.044	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
HFPO-DA (GenX)	<0.047		0.23	0.047	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
9Cl-PF3ONS	<0.040		0.23	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1
11Cl-PF3OUdS	<0.035		0.23	0.035	ug/Kg	☼	10/05/22 12:21	10/10/22 08:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C5 PFPeA	*108*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C2 PFHxA	*92*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C4 PFHpA	*97*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C4 PFOA	*94*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C5 PFNA	*101*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C2 PFDA	*92*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C2 PFUnA	*84*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C2 PFDoA	*90*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
13C3 PFBS	*86*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*
18O2 PFHxS	*87*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:32*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-6 (2-4)
Date Collected: 09/08/22 12:00
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-1
Matrix: Solid
Percent Solids: 81.5

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	87		25 - 150	10/05/22 12:21	10/10/22 08:32	1
13C8 FOSA	81		10 - 150	10/05/22 12:21	10/10/22 08:32	1
d3-NMeFOSAA	94		25 - 150	10/05/22 12:21	10/10/22 08:32	1
d5-NEtFOSAA	111		25 - 150	10/05/22 12:21	10/10/22 08:32	1
d-N-MeFOSA-M	74		10 - 150	10/05/22 12:21	10/10/22 08:32	1
d-N-EtFOSA-M	78		10 - 150	10/05/22 12:21	10/10/22 08:32	1
d7-N-MeFOSE-M	85		10 - 150	10/05/22 12:21	10/10/22 08:32	1
d9-N-EtFOSE-M	88		10 - 150	10/05/22 12:21	10/10/22 08:32	1
M2-4:2 FTS	73		25 - 150	10/05/22 12:21	10/10/22 08:32	1
M2-6:2 FTS	86		25 - 150	10/05/22 12:21	10/10/22 08:32	1
M2-8:2 FTS	93		25 - 150	10/05/22 12:21	10/10/22 08:32	1
13C3 HFPO-DA	88		25 - 150	10/05/22 12:21	10/10/22 08:32	1
13C2 10:2 FTS	93		25 - 150	10/05/22 12:21	10/10/22 08:32	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: EB-Liner

Date Collected: 09/08/22 11:30
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-2

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.1	2.0	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluoropentanoic acid (PFPeA)	<0.40		1.6	0.40	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorohexanoic acid (PFHxA)	<0.47		1.6	0.47	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluoroheptanoic acid (PFHpA)	<0.20		1.6	0.20	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorooctanoic acid (PFOA)	<0.69		1.6	0.69	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorononanoic acid (PFNA)	<0.22		1.6	0.22	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorodecanoic acid (PFDA)	<0.25		1.6	0.25	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluoroundecanoic acid (PFUnA)	<0.89		1.6	0.89	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorododecanoic acid (PFDoA)	<0.45		1.6	0.45	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.6	1.1	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.59		1.6	0.59	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.16		1.6	0.16	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.24		1.6	0.24	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.46		1.6	0.46	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		1.6	0.15	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.44		1.6	0.44	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.79		1.6	0.79	ng/L		09/22/22 11:59	09/25/22 00:39	1
Perfluorooctanesulfonamide (FOSA)	<0.80		1.6	0.80	ng/L		09/22/22 11:59	09/25/22 00:39	1
NEtFOSA	<0.71		1.6	0.71	ng/L		09/22/22 11:59	09/25/22 00:39	1
NMeFOSA	<0.35		1.6	0.35	ng/L		09/22/22 11:59	09/25/22 00:39	1
NMeFOSAA	<0.98		4.1	0.98	ng/L		09/22/22 11:59	09/25/22 00:39	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		09/22/22 11:59	09/25/22 00:39	1
NMeFOSE	<1.1		3.3	1.1	ng/L		09/22/22 11:59	09/25/22 00:39	1
NEtFOSE	<0.69		1.6	0.69	ng/L		09/22/22 11:59	09/25/22 00:39	1
4:2 FTS	<0.20		1.6	0.20	ng/L		09/22/22 11:59	09/25/22 00:39	1
6:2 FTS	<2.0		4.1	2.0	ng/L		09/22/22 11:59	09/25/22 00:39	1
8:2 FTS	<0.37		1.6	0.37	ng/L		09/22/22 11:59	09/25/22 00:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.6	0.33	ng/L		09/22/22 11:59	09/25/22 00:39	1
HFPO-DA (GenX)	<1.2	*1	3.3	1.2	ng/L		09/22/22 11:59	09/25/22 00:39	1
9Cl-PF3ONS	<0.20		1.6	0.20	ng/L		09/22/22 11:59	09/25/22 00:39	1
11Cl-PF3OUdS	<0.26		1.6	0.26	ng/L		09/22/22 11:59	09/25/22 00:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C5 PFPeA	*83*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C2 PFHxA	*97*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C4 PFHpA	*86*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C5 PFNA	*86*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C2 PFDA	*98*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C2 PFUnA	*100*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C2 PFDoA	*99*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C2 PFTeDA	*94*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
13C3 PFBS	*95*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*
18O2 PFHxS	*104*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:39*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: EB-Liner
Date Collected: 09/08/22 11:30
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	96		25 - 150	09/22/22 11:59	09/25/22 00:39	1
13C8 FOSA	101		10 - 150	09/22/22 11:59	09/25/22 00:39	1
d3-NMeFOSAA	96		25 - 150	09/22/22 11:59	09/25/22 00:39	1
d5-NEtFOSAA	92		25 - 150	09/22/22 11:59	09/25/22 00:39	1
d-N-MeFOSA-M	79		10 - 150	09/22/22 11:59	09/25/22 00:39	1
d-N-EtFOSA-M	80		10 - 150	09/22/22 11:59	09/25/22 00:39	1
d7-N-MeFOSE-M	83		10 - 150	09/22/22 11:59	09/25/22 00:39	1
d9-N-EtFOSE-M	98		10 - 150	09/22/22 11:59	09/25/22 00:39	1
M2-4:2 FTS	88		25 - 150	09/22/22 11:59	09/25/22 00:39	1
M2-6:2 FTS	79		25 - 150	09/22/22 11:59	09/25/22 00:39	1
M2-8:2 FTS	92		25 - 150	09/22/22 11:59	09/25/22 00:39	1
13C3 HFPO-DA	86		25 - 150	09/22/22 11:59	09/25/22 00:39	1
13C2 10:2 FTS	87		25 - 150	09/22/22 11:59	09/25/22 00:39	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: EB-Prepack

Date Collected: 09/08/22 11:45
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-3

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.7		5.5	2.7	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluoropentanoic acid (PFPeA)	<0.54		2.2	0.54	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorohexanoic acid (PFHxA)	<0.64		2.2	0.64	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluoroheptanoic acid (PFHpA)	<0.28		2.2	0.28	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorooctanoic acid (PFOA)	<0.94		2.2	0.94	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorononanoic acid (PFNA)	<0.30		2.2	0.30	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorodecanoic acid (PFDA)	<0.34		2.2	0.34	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluoroundecanoic acid (PFUnA)	<1.2		2.2	1.2	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorododecanoic acid (PFDoA)	<0.61		2.2	0.61	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		2.2	1.4	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorotetradecanoic acid (PFTeA)	<0.81		2.2	0.81	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.22		2.2	0.22	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.33		2.2	0.33	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.63		2.2	0.63	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.21		2.2	0.21	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.60		2.2	0.60	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorononanesulfonic acid (PFNS)	<0.41		2.2	0.41	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		2.2	0.35	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorododecanesulfonic acid (PFDoS)	<1.1		2.2	1.1	ng/L		09/22/22 11:59	09/25/22 00:49	1
Perfluorooctanesulfonamide (FOSA)	<1.1		2.2	1.1	ng/L		09/22/22 11:59	09/25/22 00:49	1
NEtFOSA	<0.96		2.2	0.96	ng/L		09/22/22 11:59	09/25/22 00:49	1
NMeFOSA	<0.48		2.2	0.48	ng/L		09/22/22 11:59	09/25/22 00:49	1
NMeFOSAA	<1.3		5.5	1.3	ng/L		09/22/22 11:59	09/25/22 00:49	1
NEtFOSAA	<1.4		5.5	1.4	ng/L		09/22/22 11:59	09/25/22 00:49	1
NMeFOSE	<1.6		4.4	1.6	ng/L		09/22/22 11:59	09/25/22 00:49	1
NEtFOSE	<0.94		2.2	0.94	ng/L		09/22/22 11:59	09/25/22 00:49	1
4:2 FTS	<0.27		2.2	0.27	ng/L		09/22/22 11:59	09/25/22 00:49	1
6:2 FTS	<2.8		5.5	2.8	ng/L		09/22/22 11:59	09/25/22 00:49	1
8:2 FTS	<0.51		2.2	0.51	ng/L		09/22/22 11:59	09/25/22 00:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.44		2.2	0.44	ng/L		09/22/22 11:59	09/25/22 00:49	1
HFPO-DA (GenX)	<1.7	*1	4.4	1.7	ng/L		09/22/22 11:59	09/25/22 00:49	1
9Cl-PF3ONS	<0.27		2.2	0.27	ng/L		09/22/22 11:59	09/25/22 00:49	1
11Cl-PF3OUdS	<0.35		2.2	0.35	ng/L		09/22/22 11:59	09/25/22 00:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*109*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C5 PFPeA	*83*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C2 PFHxA	*94*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C4 PFHpA	*92*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C5 PFNA	*90*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C2 PFDA	*93*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C2 PFUnA	*98*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C2 PFDoA	*92*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
13C3 PFBS	*103*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*
18O2 PFHxS	*102*		*25 - 150*	*09/22/22 11:59*	*09/25/22 00:49*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: EB-Prepack
Date Collected: 09/08/22 11:45
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	101		25 - 150	09/22/22 11:59	09/25/22 00:49	1
13C8 FOSA	95		10 - 150	09/22/22 11:59	09/25/22 00:49	1
d3-NMeFOSAA	92		25 - 150	09/22/22 11:59	09/25/22 00:49	1
d5-NEtFOSAA	87		25 - 150	09/22/22 11:59	09/25/22 00:49	1
d-N-MeFOSA-M	75		10 - 150	09/22/22 11:59	09/25/22 00:49	1
d-N-EtFOSA-M	77		10 - 150	09/22/22 11:59	09/25/22 00:49	1
d7-N-MeFOSE-M	80		10 - 150	09/22/22 11:59	09/25/22 00:49	1
d9-N-EtFOSE-M	99		10 - 150	09/22/22 11:59	09/25/22 00:49	1
M2-4:2 FTS	79		25 - 150	09/22/22 11:59	09/25/22 00:49	1
M2-6:2 FTS	76		25 - 150	09/22/22 11:59	09/25/22 00:49	1
M2-8:2 FTS	78		25 - 150	09/22/22 11:59	09/25/22 00:49	1
13C3 HFPO-DA	83		25 - 150	09/22/22 11:59	09/25/22 00:49	1
13C2 10:2 FTS	81		25 - 150	09/22/22 11:59	09/25/22 00:49	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-33 (0-2)
Date Collected: 09/08/22 13:25
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-4
Matrix: Solid
Percent Solids: 93.7

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.045		0.20	0.045	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluoropentanoic acid (PFPeA)	<0.040		0.20	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorohexanoic acid (PFHxA)	<0.031		0.20	0.031	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluoroheptanoic acid (PFHpA)	<0.038		0.20	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorooctanoic acid (PFOA)	<0.052		0.20	0.052	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorononanoic acid (PFNA)	<0.022		0.20	0.022	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorodecanoic acid (PFDA)	<0.047		0.20	0.047	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluoroundecanoic acid (PFUnA)	<0.041		0.20	0.041	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorododecanoic acid (PFDoA)	<0.030		0.20	0.030	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorotridecanoic acid (PFTrDA)	<0.021		0.20	0.021	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.037		0.20	0.037	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorobutanesulfonic acid (PFBS)	<0.038		0.20	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.037		0.20	0.037	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorohexanesulfonic acid (PFHxS)	<0.029		0.20	0.029	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.048		0.20	0.048	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorooctanesulfonic acid (PFOS)	**0.069**	**J**	0.20	0.042	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorononanesulfonic acid (PFNS)	<0.029		0.20	0.029	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.051		0.20	0.051	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.046		0.20	0.046	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
Perfluorooctanesulfonamide (FOSA)	<0.033		0.20	0.033	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NEtFOSA	<0.046		0.20	0.046	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NMeFOSA	<0.048		0.20	0.048	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NMeFOSAA	<0.023		0.20	0.023	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NEtFOSAA	<0.047		0.20	0.047	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NMeFOSE	<0.046		0.20	0.046	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
NEtFOSE	<0.028		0.20	0.028	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
4:2 FTS	<0.050		0.20	0.050	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
6:2 FTS	<0.027		0.20	0.027	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
8:2 FTS	<0.035		0.20	0.035	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.039		0.20	0.039	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
HFPO-DA (GenX)	<0.040		0.20	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
9Cl-PF3ONS	<0.035		0.20	0.035	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1
11Cl-PF3OUdS	<0.031		0.20	0.031	ug/Kg	☼	10/05/22 12:21	10/10/22 08:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C5 PFPeA	*85*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C2 PFHxA	*88*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C4 PFHpA	*95*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C4 PFOA	*87*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C5 PFNA	*84*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C2 PFDA	*91*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C2 PFUnA	*71*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C2 PFDoA	*72*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
13C3 PFBS	*83*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*
18O2 PFHxS	*86*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:42*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-33 (0-2)
Date Collected: 09/08/22 13:25
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-4
Matrix: Solid
Percent Solids: 93.7

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	73		25 - 150	10/05/22 12:21	10/10/22 08:42	1
13C8 FOSA	70		10 - 150	10/05/22 12:21	10/10/22 08:42	1
d3-NMeFOSAA	67		25 - 150	10/05/22 12:21	10/10/22 08:42	1
d5-NEtFOSAA	75		25 - 150	10/05/22 12:21	10/10/22 08:42	1
d-N-MeFOSA-M	56		10 - 150	10/05/22 12:21	10/10/22 08:42	1
d-N-EtFOSA-M	64		10 - 150	10/05/22 12:21	10/10/22 08:42	1
d7-N-MeFOSE-M	63		10 - 150	10/05/22 12:21	10/10/22 08:42	1
d9-N-EtFOSE-M	59		10 - 150	10/05/22 12:21	10/10/22 08:42	1
M2-4:2 FTS	72		25 - 150	10/05/22 12:21	10/10/22 08:42	1
M2-6:2 FTS	89		25 - 150	10/05/22 12:21	10/10/22 08:42	1
M2-8:2 FTS	85		25 - 150	10/05/22 12:21	10/10/22 08:42	1
13C3 HFPO-DA	89		25 - 150	10/05/22 12:21	10/10/22 08:42	1
13C2 10:2 FTS	68		25 - 150	10/05/22 12:21	10/10/22 08:42	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-45 (6-8)
Date Collected: 09/08/22 14:28
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-5
Matrix: Solid
Percent Solids: 87.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.050		0.22	0.050	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluoropentanoic acid (PFPeA)	<0.044		0.22	0.044	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorohexanoic acid (PFHxA)	0.048	J	0.22	0.034	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluoroheptanoic acid (PFHpA)	<0.041		0.22	0.041	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorooctanoic acid (PFOA)	<0.057		0.22	0.057	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorononanoic acid (PFNA)	<0.024		0.22	0.024	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorodecanoic acid (PFDA)	<0.052		0.22	0.052	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluoroundecanoic acid (PFUnA)	<0.045		0.22	0.045	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorododecanoic acid (PFDoA)	<0.032		0.22	0.032	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorotridecanoic acid (PFTrDA)	<0.023		0.22	0.023	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.040		0.22	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.041		0.22	0.041	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.040		0.22	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.031		0.22	0.031	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.053		0.22	0.053	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.047		0.22	0.047	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorononanesulfonic acid (PFNS)	<0.031		0.22	0.031	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.056		0.22	0.056	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.051		0.22	0.051	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
Perfluorooctanesulfonamide (FOSA)	0.076	J	0.22	0.036	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NEtFOSA	<0.051		0.22	0.051	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NMeFOSA	<0.053		0.22	0.053	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NMeFOSAA	<0.025		0.22	0.025	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NEtFOSAA	<0.052		0.22	0.052	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NMeFOSE	<0.051		0.22	0.051	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
NEtFOSE	<0.030		0.22	0.030	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
6:2 FTS	<0.029		0.22	0.029	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
8:2 FTS	<0.038		0.22	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.042		0.22	0.042	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
HFPO-DA (GenX)	<0.044		0.22	0.044	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
9Cl-PF3ONS	<0.038		0.22	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1
11Cl-PF3OUdS	<0.034		0.22	0.034	ug/Kg	☼	10/05/22 12:21	10/10/22 08:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C5 PFPeA	*89*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C2 PFHxA	*92*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C4 PFHpA	*91*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C4 PFOA	*95*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C5 PFNA	*90*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C2 PFDA	*84*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C2 PFUnA	*76*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C2 PFDoA	*74*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C2 PFTeDA	*84*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
13C3 PFBS	*82*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*
18O2 PFHxS	*87*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:52*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-45 (6-8)
Date Collected: 09/08/22 14:28
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-5
Matrix: Solid
Percent Solids: 87.2

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	10/05/22 12:21	10/10/22 08:52	1
13C8 FOSA	67		10 - 150	10/05/22 12:21	10/10/22 08:52	1
d3-NMeFOSAA	87		25 - 150	10/05/22 12:21	10/10/22 08:52	1
d5-NEtFOSAA	84		25 - 150	10/05/22 12:21	10/10/22 08:52	1
d-N-MeFOSA-M	27		10 - 150	10/05/22 12:21	10/10/22 08:52	1
d-N-EtFOSA-M	28		10 - 150	10/05/22 12:21	10/10/22 08:52	1
d7-N-MeFOSE-M	58		10 - 150	10/05/22 12:21	10/10/22 08:52	1
d9-N-EtFOSE-M	53		10 - 150	10/05/22 12:21	10/10/22 08:52	1
M2-4:2 FTS	60		25 - 150	10/05/22 12:21	10/10/22 08:52	1
M2-6:2 FTS	62		25 - 150	10/05/22 12:21	10/10/22 08:52	1
M2-8:2 FTS	73		25 - 150	10/05/22 12:21	10/10/22 08:52	1
13C3 HFPO-DA	86		25 - 150	10/05/22 12:21	10/10/22 08:52	1
13C2 10:2 FTS	59		25 - 150	10/05/22 12:21	10/10/22 08:52	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-109 (3-4)
Date Collected: 09/08/22 15:40
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-6
Matrix: Solid
Percent Solids: 75.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.061		0.26	0.061	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluoropentanoic acid (PFPeA)	0.13	J	0.26	0.054	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorohexanoic acid (PFHxA)	0.094	J	0.26	0.041	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluoroheptanoic acid (PFHpA)	0.18	J	0.26	0.050	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorooctanoic acid (PFOA)	0.078	J	0.26	0.070	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorononanoic acid (PFNA)	<0.029		0.26	0.029	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorodecanoic acid (PFDA)	<0.064		0.26	0.064	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluoroundecanoic acid (PFUnA)	<0.056		0.26	0.056	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorododecanoic acid (PFDoA)	<0.040		0.26	0.040	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorotridecanoic acid (PFTrDA)	<0.028		0.26	0.028	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.049		0.26	0.049	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorobutanesulfonic acid (PFBS)	<0.050		0.26	0.050	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.049		0.26	0.049	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorohexanesulfonic acid (PFHxS)	<0.038		0.26	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.065		0.26	0.065	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorooctanesulfonic acid (PFOS)	0.079	J I	0.26	0.057	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorononanesulfonic acid (PFNS)	<0.038		0.26	0.038	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.069		0.26	0.069	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.062		0.26	0.062	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
Perfluorooctanesulfonamide (FOSA)	<0.044		0.26	0.044	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NEtFOSA	<0.062		0.26	0.062	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NMeFOSA	<0.065		0.26	0.065	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NMeFOSAA	<0.030		0.26	0.030	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NEtFOSAA	<0.064		0.26	0.064	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NMeFOSE	<0.062		0.26	0.062	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
NEtFOSE	<0.037		0.26	0.037	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
4:2 FTS	<0.068		0.26	0.068	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
6:2 FTS	<0.036		0.26	0.036	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
8:2 FTS	<0.046		0.26	0.046	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.052		0.26	0.052	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
HFPO-DA (GenX)	<0.054		0.26	0.054	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
9Cl-PF3ONS	<0.046		0.26	0.046	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1
11Cl-PF3OUdS	<0.041		0.26	0.041	ug/Kg	☼	10/05/22 12:21	10/10/22 09:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C5 PFPeA	*93*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C2 PFHxA	*103*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C4 PFHpA	*99*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C4 PFOA	*90*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C5 PFNA	*91*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C2 PFDA	*90*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C2 PFUnA	*71*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C2 PFDoA	*75*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
13C3 PFBS	*85*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*
18O2 PFHxS	*91*		*25 - 150*	*10/05/22 12:21*	*10/10/22 09:02*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-109 (3-4)
Date Collected: 09/08/22 15:40
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-6
Matrix: Solid
Percent Solids: 75.1

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	10/05/22 12:21	10/10/22 09:02	1
13C8 FOSA	76		10 - 150	10/05/22 12:21	10/10/22 09:02	1
d3-NMeFOSAA	86		25 - 150	10/05/22 12:21	10/10/22 09:02	1
d5-NEtFOSAA	89		25 - 150	10/05/22 12:21	10/10/22 09:02	1
d-N-MeFOSA-M	46		10 - 150	10/05/22 12:21	10/10/22 09:02	1
d-N-EtFOSA-M	54		10 - 150	10/05/22 12:21	10/10/22 09:02	1
d7-N-MeFOSE-M	65		10 - 150	10/05/22 12:21	10/10/22 09:02	1
d9-N-EtFOSE-M	66		10 - 150	10/05/22 12:21	10/10/22 09:02	1
M2-4:2 FTS	81		25 - 150	10/05/22 12:21	10/10/22 09:02	1
M2-6:2 FTS	74		25 - 150	10/05/22 12:21	10/10/22 09:02	1
M2-8:2 FTS	78		25 - 150	10/05/22 12:21	10/10/22 09:02	1
13C3 HFPO-DA	93		25 - 150	10/05/22 12:21	10/10/22 09:02	1
13C2 10:2 FTS	64		25 - 150	10/05/22 12:21	10/10/22 09:02	1

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

LCMS

Prep Batch: 619051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222051-2	EB-Liner	Total/NA	Water	3535	
500-222051-3	EB-Prepack	Total/NA	Water	3535	
MB 320-619051/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-619051/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-619051/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 619628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222051-2	EB-Liner	Total/NA	Water	537 (modified)	619051
500-222051-3	EB-Prepack	Total/NA	Water	537 (modified)	619051
MB 320-619051/1-A	Method Blank	Total/NA	Water	537 (modified)	619051
LCS 320-619051/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	619051
LCSD 320-619051/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	619051

Prep Batch: 622504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222051-1	B-6 (2-4)	Total/NA	Solid	SHAKE	
500-222051-4	B-33 (0-2)	Total/NA	Solid	SHAKE	
500-222051-5	B-45 (6-8)	Total/NA	Solid	SHAKE	
500-222051-6	B-109 (3-4)	Total/NA	Solid	SHAKE	
MB 320-622504/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-622504/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 623527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222051-1	B-6 (2-4)	Total/NA	Solid	537 (modified)	622504
500-222051-4	B-33 (0-2)	Total/NA	Solid	537 (modified)	622504
500-222051-5	B-45 (6-8)	Total/NA	Solid	537 (modified)	622504
500-222051-6	B-109 (3-4)	Total/NA	Solid	537 (modified)	622504
MB 320-622504/1-A	Method Blank	Total/NA	Solid	537 (modified)	622504
LCS 320-622504/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	622504

General Chemistry

Analysis Batch: 616277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222051-1	B-6 (2-4)	Total/NA	Solid	Moisture	
500-222051-4	B-33 (0-2)	Total/NA	Solid	Moisture	
500-222051-5	B-45 (6-8)	Total/NA	Solid	Moisture	
500-222051-6	B-109 (3-4)	Total/NA	Solid	Moisture	

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-619051/1-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		09/22/22 11:59	09/24/22 23:18	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		09/22/22 11:59	09/24/22 23:18	1
NEtFOSA	<0.87		2.0	0.87	ng/L		09/22/22 11:59	09/24/22 23:18	1
NMeFOSA	<0.43		2.0	0.43	ng/L		09/22/22 11:59	09/24/22 23:18	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		09/22/22 11:59	09/24/22 23:18	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		09/22/22 11:59	09/24/22 23:18	1
NMeFOSE	<1.4		4.0	1.4	ng/L		09/22/22 11:59	09/24/22 23:18	1
NEtFOSE	<0.85		2.0	0.85	ng/L		09/22/22 11:59	09/24/22 23:18	1
4:2 FTS	<0.24		2.0	0.24	ng/L		09/22/22 11:59	09/24/22 23:18	1
6:2 FTS	<2.5		5.0	2.5	ng/L		09/22/22 11:59	09/24/22 23:18	1
8:2 FTS	<0.46		2.0	0.46	ng/L		09/22/22 11:59	09/24/22 23:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		09/22/22 11:59	09/24/22 23:18	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		09/22/22 11:59	09/24/22 23:18	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		09/22/22 11:59	09/24/22 23:18	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		09/22/22 11:59	09/24/22 23:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*108*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C5 PFPeA	*87*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C2 PFHxA	*99*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C4 PFHpA	*95*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C5 PFNA	*96*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C2 PFDA	*98*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C2 PFUnA	*100*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C2 PFDoA	*100*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*
13C2 PFTeDA	*101*		*25 - 150*	*09/22/22 11:59*	*09/24/22 23:18*	*1*

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

Lab Sample ID: MB 320-619051/1-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619051

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	103		25 - 150	09/22/22 11:59	09/24/22 23:18	1
18O2 PFHxS	107		25 - 150	09/22/22 11:59	09/24/22 23:18	1
13C4 PFOS	104		25 - 150	09/22/22 11:59	09/24/22 23:18	1
13C8 FOSA	105		10 - 150	09/22/22 11:59	09/24/22 23:18	1
d3-NMeFOSAA	99		25 - 150	09/22/22 11:59	09/24/22 23:18	1
d5-NEtFOSAA	97		25 - 150	09/22/22 11:59	09/24/22 23:18	1
d-N-MeFOSA-M	86		10 - 150	09/22/22 11:59	09/24/22 23:18	1
d-N-EtFOSA-M	83		10 - 150	09/22/22 11:59	09/24/22 23:18	1
d7-N-MeFOSE-M	94		10 - 150	09/22/22 11:59	09/24/22 23:18	1
d9-N-EtFOSE-M	102		10 - 150	09/22/22 11:59	09/24/22 23:18	1
M2-4:2 FTS	83		25 - 150	09/22/22 11:59	09/24/22 23:18	1
M2-6:2 FTS	79		25 - 150	09/22/22 11:59	09/24/22 23:18	1
M2-8:2 FTS	89		25 - 150	09/22/22 11:59	09/24/22 23:18	1
13C3 HFPO-DA	87		25 - 150	09/22/22 11:59	09/24/22 23:18	1
13C2 10:2 FTS	86		25 - 150	09/22/22 11:59	09/24/22 23:18	1

Lab Sample ID: LCS 320-619051/2-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	39.9		ng/L		100	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	39.8		ng/L		99	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.3		ng/L		101	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.9		ng/L		105	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.7		ng/L		102	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.6		ng/L		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	37.7		ng/L		94	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.1		ng/L		103	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	38.6		ng/L		97	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	38.7		ng/L		97	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	36.7		ng/L		103	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.1		ng/L		96	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.1		ng/L		104	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.5		ng/L		101	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.5		ng/L		104	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.9		ng/L		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.8		ng/L		98	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.0		ng/L		108	60 - 135

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

Lab Sample ID: LCS 320-619051/2-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	43.5		ng/L		109	60 - 135
NEtFOSA	40.0	39.4		ng/L		98	60 - 135
NMeFOSA	40.0	41.5		ng/L		104	60 - 135
NMeFOSAA	40.0	37.7		ng/L		94	60 - 135
NEtFOSAA	40.0	37.7		ng/L		94	60 - 135
NMeFOSE	40.0	41.2		ng/L		103	60 - 135
NEtFOSE	40.0	37.4		ng/L		94	60 - 135
4:2 FTS	37.5	36.9		ng/L		98	60 - 135
6:2 FTS	38.1	35.1		ng/L		92	60 - 135
8:2 FTS	38.4	36.0		ng/L		94	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.5		ng/L		97	60 - 135
HFPO-DA (GenX)	40.0	40.8		ng/L		102	60 - 135
9Cl-PF3ONS	37.4	33.0		ng/L		88	60 - 135
11Cl-PF3OUdS	37.8	37.0		ng/L		98	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*107*		*25 - 150*
13C5 PFPeA	*90*		*25 - 150*
13C2 PFHxA	*101*		*25 - 150*
13C4 PFHpA	*93*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*101*		*25 - 150*
13C2 PFTeDA	*102*		*25 - 150*
13C3 PFBS	*109*		*25 - 150*
18O2 PFHxS	*105*		*25 - 150*
13C4 PFOS	*104*		*25 - 150*
13C8 FOSA	*102*		*10 - 150*
d3-NMeFOSAA	*103*		*25 - 150*
d5-NEtFOSAA	*99*		*25 - 150*
d-N-MeFOSA-M	*81*		*10 - 150*
d-N-EtFOSA-M	*82*		*10 - 150*
d7-N-MeFOSE-M	*89*		*10 - 150*
d9-N-EtFOSE-M	*105*		*10 - 150*
M2-4:2 FTS	*78*		*25 - 150*
M2-6:2 FTS	*81*		*25 - 150*
M2-8:2 FTS	*81*		*25 - 150*
13C3 HFPO-DA	*88*		*25 - 150*
13C2 10:2 FTS	*92*		*25 - 150*

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

Lab Sample ID: LCSD 320-619051/3-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	39.9		ng/L		100	60 - 135	0	30
Perfluoropentanoic acid (PFPeA)			40.0	41.5		ng/L		104	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)			40.0	39.3		ng/L		98	60 - 135	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	42.4		ng/L		106	60 - 135	5	30
Perfluorooctanoic acid (PFOA)			40.0	40.1		ng/L		100	60 - 135	4	30
Perfluorononanoic acid (PFNA)			40.0	41.9		ng/L		105	60 - 135	3	30
Perfluorodecanoic acid (PFDA)			40.0	39.3		ng/L		98	60 - 135	3	30
Perfluoroundecanoic acid (PFUnA)			40.0	38.4		ng/L		96	60 - 135	2	30
Perfluorododecanoic acid (PFDoA)			40.0	42.2		ng/L		106	60 - 135	3	30
Perfluorotridecanoic acid (PFTrDA)			40.0	40.2		ng/L		100	60 - 135	4	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.0		ng/L		97	60 - 135	1	30
Perfluorobutanesulfonic acid (PFBS)			35.5	37.8		ng/L		106	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	36.8		ng/L		98	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	37.1		ng/L		102	60 - 135	2	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	42.5		ng/L		111	60 - 135	10	30
Perfluorooctanesulfonic acid (PFOS)			37.2	39.8		ng/L		107	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)			38.5	45.7		ng/L		119	60 - 135	16	30
Perfluorodecanesulfonic acid (PFDS)			38.6	39.5		ng/L		102	60 - 135	4	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	41.9		ng/L		108	60 - 135	0	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.2		ng/L		108	60 - 135	1	30
NEtFOSA			40.0	39.6		ng/L		99	60 - 135	1	30
NMeFOSA			40.0	42.7		ng/L		107	60 - 135	3	30
NMeFOSAA			40.0	40.7		ng/L		102	60 - 135	8	30
NEtFOSAA			40.0	39.8		ng/L		99	60 - 135	5	30
NMeFOSE			40.0	39.1		ng/L		98	60 - 135	5	30
NEtFOSE			40.0	39.0		ng/L		97	60 - 135	4	30
4:2 FTS			37.5	37.7		ng/L		100	60 - 135	2	30
6:2 FTS			38.1	36.3		ng/L		95	60 - 135	4	30
8:2 FTS			38.4	36.6		ng/L		95	60 - 135	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.8	39.4		ng/L		104	60 - 135	8	30
HFPO-DA (GenX)			40.0	28.4	*1	ng/L		71	60 - 135	36	30
9Cl-PF3ONS			37.4	34.8		ng/L		93	60 - 135	5	30
11Cl-PF3OUdS			37.8	37.3		ng/L		99	60 - 135	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*108*		*25 - 150*
13C5 PFPeA	*85*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*

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

Lab Sample ID: LCSD 320-619051/3-A
Matrix: Water
Analysis Batch: 619628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619051

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFHpA	*92*		*25 - 150*
13C4 PFOA	*103*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*104*		*25 - 150*
13C2 PFDoA	*99*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C3 PFBS	*104*		*25 - 150*
18O2 PFHxS	*106*		*25 - 150*
13C4 PFOS	*99*		*25 - 150*
13C8 FOSA	*102*		*10 - 150*
d3-NMeFOSAA	*96*		*25 - 150*
d5-NEtFOSAA	*91*		*25 - 150*
d-N-MeFOSA-M	*79*		*10 - 150*
d-N-EtFOSA-M	*82*		*10 - 150*
d7-N-MeFOSE-M	*98*		*10 - 150*
d9-N-EtFOSE-M	*104*		*10 - 150*
M2-4:2 FTS	*78*		*25 - 150*
M2-6:2 FTS	*81*		*25 - 150*
M2-8:2 FTS	*82*		*25 - 150*
13C3 HFPO-DA	*112*		*25 - 150*
13C2 10:2 FTS	*87*		*25 - 150*

Lab Sample ID: MB 320-622504/1-A
Matrix: Solid
Analysis Batch: 623527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.046		0.20	0.046	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluoropentanoic acid (PFPeA)	<0.041		0.20	0.041	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorohexanoic acid (PFHxA)	<0.031		0.20	0.031	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluoroheptanoic acid (PFHpA)	<0.038		0.20	0.038	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorooctanoic acid (PFOA)	<0.053		0.20	0.053	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorononanoic acid (PFNA)	<0.022		0.20	0.022	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorodecanoic acid (PFDA)	<0.048		0.20	0.048	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluoroundecanoic acid (PFUnA)	<0.042		0.20	0.042	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorododecanoic acid (PFDoA)	<0.030		0.20	0.030	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorotridecanoic acid (PFTrDA)	<0.021		0.20	0.021	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.037		0.20	0.037	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.038		0.20	0.038	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.037		0.20	0.037	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.029		0.20	0.029	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.049		0.20	0.049	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.043		0.20	0.043	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorononanesulfonic acid (PFNS)	<0.029		0.20	0.029	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.052		0.20	0.052	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.047		0.20	0.047	ug/Kg		10/05/22 12:21	10/10/22 08:12	1

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

Lab Sample ID: MB 320-622504/1-A
Matrix: Solid
Analysis Batch: 623527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<0.033		0.20	0.033	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NEtFOSA	<0.047		0.20	0.047	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NMeFOSA	<0.049		0.20	0.049	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NMeFOSAA	<0.023		0.20	0.023	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NEtFOSAA	<0.048		0.20	0.048	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NMeFOSE	<0.047		0.20	0.047	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
NEtFOSE	<0.028		0.20	0.028	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
4:2 FTS	<0.051		0.20	0.051	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
6:2 FTS	<0.027		0.20	0.027	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
8:2 FTS	<0.035		0.20	0.035	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.039		0.20	0.039	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
HFPO-DA (GenX)	<0.041		0.20	0.041	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
9Cl-PF3ONS	<0.035		0.20	0.035	ug/Kg		10/05/22 12:21	10/10/22 08:12	1
11Cl-PF3OUdS	<0.031		0.20	0.031	ug/Kg		10/05/22 12:21	10/10/22 08:12	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C5 PFPeA	*111*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 PFHxA	*101*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C4 PFHpA	*106*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C4 PFOA	*100*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C5 PFNA	*104*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 PFDA	*95*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 PFUnA	*98*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 PFDoA	*105*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 PFTeDA	*113*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C3 PFBS	*92*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
18O2 PFHxS	*95*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C4 PFOS	*100*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C8 FOSA	*98*		*10 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d3-NMeFOSAA	*114*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d5-NEtFOSAA	*126*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d-N-MeFOSA-M	*70*		*10 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d-N-EtFOSA-M	*75*		*10 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d7-N-MeFOSE-M	*89*		*10 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
d9-N-EtFOSE-M	*86*		*10 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
M2-4:2 FTS	*85*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
M2-6:2 FTS	*87*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
M2-8:2 FTS	*86*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C3 HFPO-DA	*96*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*
13C2 10:2 FTS	*98*		*25 - 150*	*10/05/22 12:21*	*10/10/22 08:12*	*1*

Lab Sample ID: LCS 320-622504/2-A
Matrix: Solid
Analysis Batch: 623527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	2.23		ug/Kg		112	60 - 135

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

Lab Sample ID: LCS 320-622504/2-A
Matrix: Solid
Analysis Batch: 623527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	2.00	1.97		ug/Kg		98	60 - 135
Perfluorohexanoic acid (PFHxA)	2.00	1.95		ug/Kg		98	60 - 135
Perfluoroheptanoic acid (PFHpA)	2.00	2.00		ug/Kg		100	60 - 135
Perfluorooctanoic acid (PFOA)	2.00	2.09		ug/Kg		105	60 - 135
Perfluorononanoic acid (PFNA)	2.00	2.02		ug/Kg		101	60 - 135
Perfluorodecanoic acid (PFDA)	2.00	1.98		ug/Kg		99	60 - 135
Perfluoroundecanoic acid (PFUnA)	2.00	1.96		ug/Kg		98	60 - 135
Perfluorododecanoic acid (PFDoA)	2.00	2.08		ug/Kg		104	60 - 135
Perfluorotridecanoic acid (PFTrDA)	2.00	1.90		ug/Kg		95	60 - 135
Perfluorotetradecanoic acid (PFTeA)	2.00	2.17		ug/Kg		109	60 - 135
Perfluorobutanesulfonic acid (PFBS)	1.78	1.90		ug/Kg		107	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.12		ug/Kg		113	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.78		ug/Kg		97	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.04		ug/Kg		107	60 - 135
Perfluorooctanesulfonic acid (PFOS)	1.86	1.85		ug/Kg		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	1.92	1.81		ug/Kg		94	60 - 135
Perfluorodecanesulfonic acid (PFDS)	1.93	1.91		ug/Kg		99	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	1.94	1.70		ug/Kg		88	60 - 135
Perfluorooctanesulfonamide (FOSA)	2.00	2.17		ug/Kg		109	60 - 135
NEtFOSA	2.00	2.36		ug/Kg		118	60 - 135
NMeFOSA	2.00	2.03		ug/Kg		102	60 - 135
NMeFOSAA	2.00	1.88		ug/Kg		94	60 - 135
NEtFOSAA	2.00	2.02		ug/Kg		101	60 - 135
NMeFOSE	2.00	1.95		ug/Kg		97	60 - 135
NEtFOSE	2.00	2.05		ug/Kg		103	60 - 135
4:2 FTS	1.88	1.86		ug/Kg		99	60 - 135
6:2 FTS	1.90	1.78		ug/Kg		93	60 - 135
8:2 FTS	1.92	2.08		ug/Kg		108	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	2.07		ug/Kg		110	60 - 135
HFPO-DA (GenX)	2.00	1.86		ug/Kg		93	60 - 135
9Cl-PF3ONS	1.87	1.76		ug/Kg		94	60 - 135
11Cl-PF3OUdS	1.89	1.59		ug/Kg		84	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*97*		*25 - 150*
13C5 PFPeA	*109*		*25 - 150*
13C2 PFHxA	*99*		*25 - 150*
13C4 PFHpA	*102*		*25 - 150*

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

Lab Sample ID: LCS 320-622504/2-A
Matrix: Solid
Analysis Batch: 623527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622504

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFOA	101		25 - 150
13C5 PFNA	106		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	104		25 - 150
13C3 PFBS	95		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	97		10 - 150
d3-NMeFOSAA	113		25 - 150
d5-NEtFOSAA	115		25 - 150
d-N-MeFOSA-M	46		10 - 150
d-N-EtFOSA-M	44		10 - 150
d7-N-MeFOSE-M	82		10 - 150
d9-N-EtFOSE-M	77		10 - 150
M2-4:2 FTS	76		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	80		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	89		25 - 150

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-6 (2-4)
Date Collected: 09/08/22 12:00
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	616277	TCS	EET SAC	09/13/22 12:33

Client Sample ID: B-6 (2-4)
Date Collected: 09/08/22 12:00
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-1
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			622504	RAC	EET SAC	10/05/22 12:21
Total/NA	Analysis	537 (modified)		1	623527	RS1	EET SAC	10/10/22 08:32

Client Sample ID: EB-Liner
Date Collected: 09/08/22 11:30
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			619051	MEK	EET SAC	09/22/22 11:59
Total/NA	Analysis	537 (modified)		1	619628	K1S	EET SAC	09/25/22 00:39

Client Sample ID: EB-Prepack
Date Collected: 09/08/22 11:45
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			619051	MEK	EET SAC	09/22/22 11:59
Total/NA	Analysis	537 (modified)		1	619628	K1S	EET SAC	09/25/22 00:49

Client Sample ID: B-33 (0-2)
Date Collected: 09/08/22 13:25
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	616277	TCS	EET SAC	09/13/22 12:33

Client Sample ID: B-33 (0-2)
Date Collected: 09/08/22 13:25
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-4
Matrix: Solid
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			622504	RAC	EET SAC	10/05/22 12:21
Total/NA	Analysis	537 (modified)		1	623527	RS1	EET SAC	10/10/22 08:42

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Client Sample ID: B-45 (6-8)
Date Collected: 09/08/22 14:28
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	616277	TCS	EET SAC	09/13/22 12:33

Client Sample ID: B-45 (6-8)
Date Collected: 09/08/22 14:28
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-5
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			622504	RAC	EET SAC	10/05/22 12:21
Total/NA	Analysis	537 (modified)		1	623527	RS1	EET SAC	10/10/22 08:52

Client Sample ID: B-109 (3-4)
Date Collected: 09/08/22 15:40
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	616277	TCS	EET SAC	09/13/22 12:33

Client Sample ID: B-109 (3-4)
Date Collected: 09/08/22 15:40
Date Received: 09/10/22 09:15

Lab Sample ID: 500-222051-6
Matrix: Solid
Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			622504	RAC	EET SAC	10/05/22 12:21
Total/NA	Analysis	537 (modified)		1	623527	RS1	EET SAC	10/10/22 09:02

Laboratory References:

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

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Job ID: 500-222051-1
Project/Site: RETIA USA LLC - 341-022-009

Laboratory: Eurofins Sacramento

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

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

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

Chain of Custody Record

eurofins

Client Information
Client Contact: Mr Robert Cigale
Company: Endpoint Solutions Corp
Address: 6871 S Lover's Lane
City: Franklin
State Zip: WI 53132
Phone: 414-4271200(Tel)
Email: bob@endpointcorporation.com
Project Name: RET.A USA LLC 341-022-009
Site: Saukville

500-222051 COC

Sampler:
Phone:
P'YSID:
Due Date Requested:
TAT Requested (days):
Compliance Project: ⊥ Yes ⊥ No
PO #: 341-022-009
WO #:
Project #: 50018271
SSOW#:

Lab PM: Fredrick Sandie
E-Mail: Sandra Fredrick@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 500-104995-44842 - 9108P
Page: Page 1 of 1 222051
Job #: 500-222926-59 9/12/22

Analysis Requested

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
PFC IDA_WI PFAS, Standard List (33 analytes)
Total Number of containers

Preservation Codes
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J D Water, K EDTA, L EDA, M Hexane, N None, O AsNaC2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	N	Special Instructions/Note
	Preservation Code:						
1	B-6 (2-4)	09/08/2022	1200	G	Solid	1	
2	EB-Liner		1130		~~Solid~~ W	2	
3	EB-Prepack		1145		~~Solid~~ W	2	
4	B-33 (0-2)		1325		Solid	1	
5	B-45 (6-8)		1428		Solid	1	
6	B-109 (3-4)		1540		Solid	1	
					Solid		
					Solid		
					Solid		
					Solid		
					Solid		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, ✓ Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished By: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	9/12022 - 1211Pm			09 22 1211Pm	Eurofins
Relinquished by	9-9-22 1700	Eurofins		9/10/22 - 915	ET-Chi
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

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

Ver 01 16/2019

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-104995-44842 - 09082
Client Contact: Mr. Robert Cigale	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Endpoint Solutions Corp	PWSID:			Job #:

Address: 6871 S. Lover's Lane	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Franklin	TAT Requested (days):		A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No		
Phone: 414-4271200(Tel)	PO #: 341-022-009		
Email: bob@endpointcorporation.com	WO #:		
Project Name: RETIA USA LLC - 341-022-009	Project #: 50018271		
Site: Saukville	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
B-6(2-4)	09/08/2022	1200	G	Solid			1		
EB-Liner		11:30		~~Solid~~ W			2		
EB-Prepack		11:45		~~Solid~~ W			2		
B-33(0-2)		1325		Solid			1		
B-45(6-8)		1428		Solid			1		
B-109(3-4)		1540		Solid			1		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

500-222051 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by	Date/Time: 9/9/2022 - 1211PM	Company	Received by	Date/Time: 9-9-22 1211PM	Company: EurofinS
Relinquished by	Date/Time: 9-9-22 1700	Company: EurofinS	Received by	Date/Time: 9/10/22 - 915	Company: ET-US Air
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 2008428 | Cooler Temperature(s) °C and Other Remarks: 2.8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-222051-1

Login Number: 222051
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-222051-1

Login Number: 222051
List Number: 2
Creator: Her, David A

List Source: Eurofins Sacramento
List Creation: 09/12/22 01:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2008428
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

Sacramento
Sample Receiving Notes

500-222051 Field Sheet

Job: _____

Tracking # : 6058-8695-8186

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: L-10 Corr. Factor: (+ / -) 0 °C

Ice ____ Wet ✓ Gel ____ Other ____

Cooler Custody Seal: 2008428

Cooler ID: —

Temp Observed: 2.8 °C Corrected: 2.8 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☐

Initials: JL Date: 9/10/22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
Samples w/o discrepancies?	☒	☐	☑ 9/12/22
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JL Date: 9/12/22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☐
Log Release checked in TALS?	☑	☐	☐

Initials: DT Date: 9/12/22

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222051-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
500-222051-1	B-6 (2-4)	88	108	92	97	94	101	92	84
500-222051-4	B-33 (0-2)	94	85	88	95	87	84	91	71
500-222051-5	B-45 (6-8)	90	89	92	91	95	90	84	76
500-222051-6	B-109 (3-4)	97	93	103	99	90	91	90	71
LCS 320-622504/2-A	Lab Control Sample	97	109	99	102	101	106	97	91
MB 320-622504/1-A	Method Blank	96	111	101	106	100	104	95	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(10-150)	(25-150)	(25-150)
500-222051-1	B-6 (2-4)	90	98	86	87	87	81	94	111
500-222051-4	B-33 (0-2)	72	86	83	86	73	70	67	75
500-222051-5	B-45 (6-8)	74	84	82	87	82	67	87	84
500-222051-6	B-109 (3-4)	75	93	85	91	82	76	86	89
LCS 320-622504/2-A	Lab Control Sample	96	104	95	100	98	97	113	115
MB 320-622504/1-A	Method Blank	105	113	92	95	100	98	114	126

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		dMeFOSA	dEtFOSA	NMFM	NEFM	M242FTS	M262FTS	M282FTS	HFPODA
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(10-150)	(10-150)	(25-150)	(25-150)	(25-150)	(25-150)
500-222051-1	B-6 (2-4)	74	78	85	88	73	86	93	88
500-222051-4	B-33 (0-2)	56	64	63	59	72	89	85	89
500-222051-5	B-45 (6-8)	27	28	58	53	60	62	73	86
500-222051-6	B-109 (3-4)	46	54	65	66	81	74	78	93
LCS 320-622504/2-A	Lab Control Sample	46	44	82	77	76	88	80	94
MB 320-622504/1-A	Method Blank	70	75	89	86	85	87	86	96

		Percent Isotope Dilution Recovery (Acceptance Limits)
		M102FTS
Lab Sample ID	Client Sample ID	(25-150)
500-222051-1	B-6 (2-4)	93
500-222051-4	B-33 (0-2)	68
500-222051-5	B-45 (6-8)	59
500-222051-6	B-109 (3-4)	64
LCS 320-622504/2-A	Lab Control Sample	89
MB 320-622504/1-A	Method Blank	98

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 500-222051-1
Project/Site: RETIA USA LLC - 341-022-009

d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-222051-2	EB-Liner	108	83	97	86	99	86	98	100
500-222051-3	EB-Prepack	109	83	94	92	99	90	93	98
LCS 320-619051/2-A	Lab Control Sample	107	90	101	93	98	95	97	106
LCSD 320-619051/3-A	Lab Control Sample Dup	108	85	102	92	103	93	99	104
MB 320-619051/1-A	Method Blank	108	87	99	95	99	96	98	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-222051-2	EB-Liner	99	94	95	104	96	101	96	92
500-222051-3	EB-Prepack	92	93	103	102	101	95	92	87
LCS 320-619051/2-A	Lab Control Sample	101	102	109	105	104	102	103	99
LCSD 320-619051/3-A	Lab Control Sample Dup	99	98	104	106	99	102	96	91
MB 320-619051/1-A	Method Blank	100	101	103	107	104	105	99	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-222051-2	EB-Liner	79	80	83	98	88	79	92	86
500-222051-3	EB-Prepack	75	77	80	99	79	76	78	83
LCS 320-619051/2-A	Lab Control Sample	81	82	89	105	78	81	81	88
LCSD 320-619051/3-A	Lab Control Sample Dup	79	82	98	104	78	81	82	112
MB 320-619051/1-A	Method Blank	86	83	94	102	83	79	89	87

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-222051-2	EB-Liner	87
500-222051-3	EB-Prepack	81
LCS 320-619051/2-A	Lab Control Sample	92
LCSD 320-619051/3-A	Lab Control Sample Dup	87
MB 320-619051/1-A	Method Blank	86

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 500-222051-1
Project/Site: RETIA USA LLC - 341-022-009

PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-222818-1
Client Project/Site: RETIA USA LLC - 341-022-009

For:
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Attn: Mr. Robert Cigale

Authorized for release by:
10/30/2022 9:31:42 AM

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

Table of Contents

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Job ID: 500-222818-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-222818-1

Comments
No additional comments.

Receipt
The samples were received on 9/23/2022 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8º C.

LCMS
Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. TW-109-22-S1 (500-222818-7)

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following samples are below the method recommended limit: TW-47-22-S1 (500-222818-8), TW-43-22-S1 (500-222818-9) and TW-40-22-S1 (500-222818-11). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples. The samples were re-analyzed with concurring results; therefore, the data have been reported.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: TW-36-22-S1 (500-222818-10), TW-40-22-S1 (500-222818-11), W-42-22-S1 (500-222818-12) and W-41-22-S1 (500-222818-13). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The samples were re-analyzed with concurring results; therefore, the data have been reported.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte: TW-47-22-S1 (500-222818-8) and TW-40-22-S1 (500-222818-11).

Method 537 (modified): Results for samplesTW-109-22-S1 (500-222818-7) was reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): Results for samples TW-43-22-S1 (500-222818-9) and TW-40-22-S1 (500-222818-11) were reported from the analysis of a diluted extract due to sample matrix of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-621373.
Method Code: 3535_PFC_28D
Matrix: Water

Method 3535: Due to the matrix (dark yellow/brown, opaque, and a thin layer at the bottom of the bottle) and the likelihood for sample clogging, the following sample TW-36-22-S1 (500-222818-10) in preparation batch 320-621373 deviated from the standard procedure. A 5x dilution was made on the sample, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
Method Code: 3535_PFC_28D
Matrix: Water

Method 3535: The following samples TT-33-22-S1 (500-222818-4), TW-109-22-S1 (500-222818-7), W-41-22-S1 (500-222818-13) and DUP-1-22-S1 (500-222818-14) in preparation batch 320-621373 had a thin layer of sediment at the bottom of the bottle prior to extraction.
Method Code: 3535_PFC_28D
Matrix: Water

Job ID: 500-222818-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 3535: The following samples TW-06-22-S1 (500-222818-2), TW-30-22-S1 (500-222818-3), TW-47-22-S1 (500-222818-8), TW-40-22-S1 (500-222818-11) and W-42-22-S1 (500-222818-12) in preparation batch 320-621373 were light yellow and had a thin layer of sediment at the bottom of the bottle prior to extraction.
Method Code: 3535_PFC_28D
Matrix: Water

Method 3535: The following sample TW-43-22-S1 (500-222818-9) in preparation batch 320-621373 were yellow and had a thin layer of sediment at the bottom of the bottle prior to extraction.
Method Code: 3535_PFC_28D
Matrix: Water

Method 3535: The following samples TW-06-22-S1 (500-222818-2), TW-47-22-S1 (500-222818-8), TW-43-22-S1 (500-222818-9), TW-36-22-S1 (500-222818-10), TW-40-22-S1 (500-222818-11) and W-42-22-S1 (500-222818-12) in preparation batch 320-621373 were light yellow after extraction and final voluming.
Method Code: 3535_PFC_28D
Matrix: Water

Method 3535: Due to low IDA recovery for 13C4 PFBA, the initial volumes used for the following samples deviated from the standard procedure: TW-43-22-S1 (500-222818-9). A 100x dilution was made on the samples, then fortified IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.
preparation batch 320-625137
3535_PFC_WI
Aqueous

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

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-01A-22-S1 — Lab Sample ID: 500-222818-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.7	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.8	0.90	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TW-06-22-S1 — Lab Sample ID: 500-222818-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	51		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	140		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	59		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	52		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	19		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.5		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.53	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	29		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.52	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24		1.8	0.49	ng/L	1		537 (modified)	Total/NA
6:2 FTS	16		4.6	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	2.6		1.8	0.42	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TW-30-22-S1 — Lab Sample ID: 500-222818-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	11		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	29		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.6		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	24		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.97	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	19		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.7		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	100		1.9	0.51	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.6	J	4.7	2.4	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TT-33-22-S1 — Lab Sample ID: 500-222818-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	100		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	320		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	310		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	160		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.33	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.8		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.8	0.49	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: EB-PERISTALTIC — Lab Sample ID: 500-222818-5

No Detections.

Client Sample ID: TW-45-22-S1 — Lab Sample ID: 500-222818-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	120		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	170		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	340		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	110		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	42		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	11		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	3.1	J	4.6	2.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TW-109-22-S1 — Lab Sample ID: 500-222818-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	100		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	280		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	240		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	160		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	36		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.9	0.53	ng/L	1		537 (modified)	Total/NA
4:2 FTS	0.92	J I	1.9	0.22	ng/L	1		537 (modified)	Total/NA
6:2 FTS - DL	340		23	12	ng/L	5		537 (modified)	Total/NA

Client Sample ID: TW-47-22-S1 — Lab Sample ID: 500-222818-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	43		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.2		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	31		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	16		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	68		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.54	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.5		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.5	I	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	37		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TW-43-22-S1 — Lab Sample ID: 500-222818-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	21		19	5.4	ng/L	10		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.7	J	19	2.3	ng/L	10		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	43		19	7.9	ng/L	10		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17	J	19	1.9	ng/L	10		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	14	J	19	2.8	ng/L	10		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	100		19	5.3	ng/L	10		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29		19	5.0	ng/L	10		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-36-22-S1 — Lab Sample ID: 500-222818-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14	J	25	12	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.9	J	10	2.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.4	J	10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		10	1.3	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	120		10	4.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.5	J	10	1.5	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	18		10	2.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12		10	2.7	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TW-40-22-S1 — Lab Sample ID: 500-222818-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	5.5	I	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.1		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	24		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.72	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	8.8	I	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	110		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.0		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-42-22-S1 — Lab Sample ID: 500-222818-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.8		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	10		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.95	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.46	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: W-41-22-S1 — Lab Sample ID: 500-222818-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.1		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.5	J	1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.2		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.60	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.26	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	14		1.9	0.50	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: DUP-1-22-S1

Lab Sample ID: 500-222818-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.2		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.4		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.50	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.25	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.9	0.50	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-222818-1	W-01A-22-S1	Water	09/20/22 11:17	09/23/22 09:10
500-222818-2	TW-06-22-S1	Water	09/20/22 12:45	09/23/22 09:10
500-222818-3	TW-30-22-S1	Water	09/21/22 09:35	09/23/22 09:10
500-222818-4	TT-33-22-S1	Water	09/21/22 09:47	09/23/22 09:10
500-222818-5	EB-PERISTALTIC	Water	09/21/22 09:50	09/23/22 09:10
500-222818-6	TW-45-22-S1	Water	09/21/22 09:55	09/23/22 09:10
500-222818-7	TW-109-22-S1	Water	09/21/22 10:05	09/23/22 09:10
500-222818-8	TW-47-22-S1	Water	09/21/22 10:14	09/23/22 09:10
500-222818-9	TW-43-22-S1	Water	09/21/22 10:28	09/23/22 09:10
500-222818-10	TW-36-22-S1	Water	09/21/22 10:30	09/23/22 09:10
500-222818-11	TW-40-22-S1	Water	09/21/22 10:42	09/23/22 09:10
500-222818-12	W-42-22-S1	Water	09/21/22 11:00	09/23/22 09:10
500-222818-13	W-41-22-S1	Water	09/21/22 14:15	09/23/22 09:10
500-222818-14	DUP-1-22-S1	Water	09/21/22 00:00	09/23/22 09:10

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-01A-22-S1

Date Collected: 09/20/22 11:17
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-1

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorobutanesulfonic acid (PFBS)	**1.7**	**J**	1.8	0.18	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		09/30/22 13:36	10/03/22 20:43	1
Perfluorooctanesulfonamide (FOSA)	**1.1**	**J**	1.8	0.90	ng/L		09/30/22 13:36	10/03/22 20:43	1
NEtFOSA	<0.80		1.8	0.80	ng/L		09/30/22 13:36	10/03/22 20:43	1
NMeFOSA	<0.39		1.8	0.39	ng/L		09/30/22 13:36	10/03/22 20:43	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/03/22 20:43	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/03/22 20:43	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/03/22 20:43	1
NEtFOSE	<0.78		1.8	0.78	ng/L		09/30/22 13:36	10/03/22 20:43	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 20:43	1
6:2 FTS	<2.3		4.6	2.3	ng/L		09/30/22 13:36	10/03/22 20:43	1
8:2 FTS	<0.42		1.8	0.42	ng/L		09/30/22 13:36	10/03/22 20:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		09/30/22 13:36	10/03/22 20:43	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/03/22 20:43	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 20:43	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 20:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C5 PFPeA	*94*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C2 PFHxA	*98*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C4 PFHpA	*98*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C4 PFOA	*98*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C5 PFNA	*97*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C2 PFDA	*94*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C2 PFUnA	*92*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C2 PFDoA	*87*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C2 PFTeDA	*89*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*
13C3 PFBS	*92*		*25 - 150*	*09/30/22 13:36*	*10/03/22 20:43*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-01A-22-S1
Date Collected: 09/20/22 11:17
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	96		25 - 150	09/30/22 13:36	10/03/22 20:43	1
13C4 PFOS	96		25 - 150	09/30/22 13:36	10/03/22 20:43	1
13C8 FOSA	89		10 - 150	09/30/22 13:36	10/03/22 20:43	1
d3-NMeFOSAA	91		25 - 150	09/30/22 13:36	10/03/22 20:43	1
d5-NEtFOSAA	96		25 - 150	09/30/22 13:36	10/03/22 20:43	1
d-N-MeFOSA-M	73		10 - 150	09/30/22 13:36	10/03/22 20:43	1
d-N-EtFOSA-M	67		10 - 150	09/30/22 13:36	10/03/22 20:43	1
d7-N-MeFOSE-M	80		10 - 150	09/30/22 13:36	10/03/22 20:43	1
d9-N-EtFOSE-M	77		10 - 150	09/30/22 13:36	10/03/22 20:43	1
M2-4:2 FTS	106		25 - 150	09/30/22 13:36	10/03/22 20:43	1
M2-6:2 FTS	107		25 - 150	09/30/22 13:36	10/03/22 20:43	1
M2-8:2 FTS	95		25 - 150	09/30/22 13:36	10/03/22 20:43	1
13C3 HFPO-DA	90		25 - 150	09/30/22 13:36	10/03/22 20:43	1
13C2 10:2 FTS	94		25 - 150	09/30/22 13:36	10/03/22 20:43	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-06-22-S1
Date Collected: 09/20/22 12:45
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-2
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**51**		4.6	2.2	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluoropentanoic acid (PFPeA)	**140**		1.8	0.45	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorohexanoic acid (PFHxA)	**59**		1.8	0.53	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluoroheptanoic acid (PFHpA)	**52**		1.8	0.23	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorooctanoic acid (PFOA)	**19**		1.8	0.78	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorononanoic acid (PFNA)	**3.5**		1.8	0.25	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorodecanoic acid (PFDA)	**0.53**	**J**	1.8	0.28	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorobutanesulfonic acid (PFBS)	**3.8**		1.8	0.18	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluoropentanesulfonic acid (PFPeS)	**4.9**		1.8	0.27	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorohexanesulfonic acid (PFHxS)	**29**		1.8	0.52	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.52**	**J**	1.8	0.17	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorooctanesulfonic acid (PFOS)	**24**		1.8	0.49	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		09/30/22 13:36	10/10/22 06:38	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		09/30/22 13:36	10/10/22 06:38	1
NEtFOSA	<0.80		1.8	0.80	ng/L		09/30/22 13:36	10/10/22 06:38	1
NMeFOSA	<0.39		1.8	0.39	ng/L		09/30/22 13:36	10/10/22 06:38	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/10/22 06:38	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/10/22 06:38	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/10/22 06:38	1
NEtFOSE	<0.78		1.8	0.78	ng/L		09/30/22 13:36	10/10/22 06:38	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/10/22 06:38	1
6:2 FTS	**16**		4.6	2.3	ng/L		09/30/22 13:36	10/10/22 06:38	1
8:2 FTS	**2.6**		1.8	0.42	ng/L		09/30/22 13:36	10/10/22 06:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		09/30/22 13:36	10/10/22 06:38	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/10/22 06:38	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/10/22 06:38	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/10/22 06:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*59*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C2 PFHxA	*110*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C4 PFHpA	*98*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C5 PFNA	*102*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C2 PFDA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C2 PFUnA	*95*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C2 PFDoA	*82*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:38*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-06-22-S1
Date Collected: 09/20/22 12:45
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	87		25 - 150	09/30/22 13:36	10/10/22 06:38	1
18O2 PFHxS	103		25 - 150	09/30/22 13:36	10/10/22 06:38	1
13C4 PFOS	98		25 - 150	09/30/22 13:36	10/10/22 06:38	1
13C8 FOSA	99		10 - 150	09/30/22 13:36	10/10/22 06:38	1
d3-NMeFOSAA	103		25 - 150	09/30/22 13:36	10/10/22 06:38	1
d5-NEtFOSAA	104		25 - 150	09/30/22 13:36	10/10/22 06:38	1
d-N-MeFOSA-M	78		10 - 150	09/30/22 13:36	10/10/22 06:38	1
d-N-EtFOSA-M	74		10 - 150	09/30/22 13:36	10/10/22 06:38	1
d7-N-MeFOSE-M	72		10 - 150	09/30/22 13:36	10/10/22 06:38	1
d9-N-EtFOSE-M	65		10 - 150	09/30/22 13:36	10/10/22 06:38	1
M2-4:2 FTS	123		25 - 150	09/30/22 13:36	10/10/22 06:38	1
M2-6:2 FTS	141		25 - 150	09/30/22 13:36	10/10/22 06:38	1
M2-8:2 FTS	125		25 - 150	09/30/22 13:36	10/10/22 06:38	1
13C3 HFPO-DA	95		25 - 150	09/30/22 13:36	10/10/22 06:38	1
13C2 10:2 FTS	72		25 - 150	09/30/22 13:36	10/10/22 06:38	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-30-22-S1
Date Collected: 09/21/22 09:35
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-3
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluoropentanoic acid (PFPeA)	**11**		1.9	0.47	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorohexanoic acid (PFHxA)	**29**		1.9	0.55	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluoroheptanoic acid (PFHpA)	**6.6**		1.9	0.24	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorooctanoic acid (PFOA)	**24**		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorononanoic acid (PFNA)	**0.97**	**J**	1.9	0.26	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorobutanesulfonic acid (PFBS)	**17**		1.9	0.19	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluoropentanesulfonic acid (PFPeS)	**19**		1.9	0.28	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorohexanesulfonic acid (PFHxS)	**150**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluoroheptanesulfonic acid (PFHpS)	**7.7**		1.9	0.18	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorooctanesulfonic acid (PFOS)	**100**		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		09/30/22 13:36	10/10/22 04:17	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		09/30/22 13:36	10/10/22 04:17	1
NEtFOSA	<0.83		1.9	0.83	ng/L		09/30/22 13:36	10/10/22 04:17	1
NMeFOSA	<0.41		1.9	0.41	ng/L		09/30/22 13:36	10/10/22 04:17	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		09/30/22 13:36	10/10/22 04:17	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		09/30/22 13:36	10/10/22 04:17	1
NMeFOSE	<1.3		3.8	1.3	ng/L		09/30/22 13:36	10/10/22 04:17	1
NEtFOSE	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 04:17	1
4:2 FTS	<0.23		1.9	0.23	ng/L		09/30/22 13:36	10/10/22 04:17	1
6:2 FTS	**2.6**	**J**	4.7	2.4	ng/L		09/30/22 13:36	10/10/22 04:17	1
8:2 FTS	<0.44		1.9	0.44	ng/L		09/30/22 13:36	10/10/22 04:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		09/30/22 13:36	10/10/22 04:17	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		09/30/22 13:36	10/10/22 04:17	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		09/30/22 13:36	10/10/22 04:17	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*66*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C5 PFPeA	*95*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C2 PFHxA	*114*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C4 PFHpA	*103*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C4 PFOA	*102*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C5 PFNA	*101*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C2 PFDA	*103*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C2 PFUnA	*93*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C2 PFDoA	*82*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*
13C2 PFTeDA	*71*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:17*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-30-22-S1
Date Collected: 09/21/22 09:35
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	96		25 - 150	09/30/22 13:36	10/10/22 04:17	1
18O2 PFHxS	103		25 - 150	09/30/22 13:36	10/10/22 04:17	1
13C4 PFOS	102		25 - 150	09/30/22 13:36	10/10/22 04:17	1
13C8 FOSA	106		10 - 150	09/30/22 13:36	10/10/22 04:17	1
d3-NMeFOSAA	100		25 - 150	09/30/22 13:36	10/10/22 04:17	1
d5-NEtFOSAA	101		25 - 150	09/30/22 13:36	10/10/22 04:17	1
d-N-MeFOSA-M	79		10 - 150	09/30/22 13:36	10/10/22 04:17	1
d-N-EtFOSA-M	71		10 - 150	09/30/22 13:36	10/10/22 04:17	1
d7-N-MeFOSE-M	74		10 - 150	09/30/22 13:36	10/10/22 04:17	1
d9-N-EtFOSE-M	67		10 - 150	09/30/22 13:36	10/10/22 04:17	1
M2-4:2 FTS	137		25 - 150	09/30/22 13:36	10/10/22 04:17	1
M2-6:2 FTS	123		25 - 150	09/30/22 13:36	10/10/22 04:17	1
M2-8:2 FTS	114		25 - 150	09/30/22 13:36	10/10/22 04:17	1
13C3 HFPO-DA	96		25 - 150	09/30/22 13:36	10/10/22 04:17	1
13C2 10:2 FTS	73		25 - 150	09/30/22 13:36	10/10/22 04:17	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TT-33-22-S1
Date Collected: 09/21/22 09:47
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-4
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**100**		4.5	2.2	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluoropentanoic acid (PFPeA)	**320**		1.8	0.44	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorohexanoic acid (PFHxA)	**310**		1.8	0.53	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluoroheptanoic acid (PFHpA)	**160**		1.8	0.23	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorooctanoic acid (PFOA)	**12**		1.8	0.77	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorononanoic acid (PFNA)	**0.33**	**J**	1.8	0.24	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorobutanesulfonic acid (PFBS)	**2.1**		1.8	0.18	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluoropentanesulfonic acid (PFPeS)	**1.8**		1.8	0.27	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorohexanesulfonic acid (PFHxS)	**19**		1.8	0.52	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorooctanesulfonic acid (PFOS)	**2.5**		1.8	0.49	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		09/30/22 13:36	10/03/22 21:44	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		09/30/22 13:36	10/03/22 21:44	1
NEtFOSA	<0.79		1.8	0.79	ng/L		09/30/22 13:36	10/03/22 21:44	1
NMeFOSA	<0.39		1.8	0.39	ng/L		09/30/22 13:36	10/03/22 21:44	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		09/30/22 13:36	10/03/22 21:44	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		09/30/22 13:36	10/03/22 21:44	1
NMeFOSE	<1.3		3.6	1.3	ng/L		09/30/22 13:36	10/03/22 21:44	1
NEtFOSE	<0.77		1.8	0.77	ng/L		09/30/22 13:36	10/03/22 21:44	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 21:44	1
6:2 FTS	<2.3		4.5	2.3	ng/L		09/30/22 13:36	10/03/22 21:44	1
8:2 FTS	<0.42		1.8	0.42	ng/L		09/30/22 13:36	10/03/22 21:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		09/30/22 13:36	10/03/22 21:44	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		09/30/22 13:36	10/03/22 21:44	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 21:44	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 21:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*69*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C5 PFPeA	*82*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C2 PFHxA	*89*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C4 PFHpA	*95*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C4 PFOA	*97*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C5 PFNA	*95*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C2 PFDA	*93*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C2 PFUnA	*81*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C2 PFDoA	*71*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*
13C2 PFTeDA	*65*		*25 - 150*	*09/30/22 13:36*	*10/03/22 21:44*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TT-33-22-S1
Date Collected: 09/21/22 09:47
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-4
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	91		25 - 150	09/30/22 13:36	10/03/22 21:44	1
18O2 PFHxS	97		25 - 150	09/30/22 13:36	10/03/22 21:44	1
13C4 PFOS	93		25 - 150	09/30/22 13:36	10/03/22 21:44	1
13C8 FOSA	88		10 - 150	09/30/22 13:36	10/03/22 21:44	1
d3-NMeFOSAA	87		25 - 150	09/30/22 13:36	10/03/22 21:44	1
d5-NEtFOSAA	81		25 - 150	09/30/22 13:36	10/03/22 21:44	1
d-N-MeFOSA-M	62		10 - 150	09/30/22 13:36	10/03/22 21:44	1
d-N-EtFOSA-M	57		10 - 150	09/30/22 13:36	10/03/22 21:44	1
d7-N-MeFOSE-M	62		10 - 150	09/30/22 13:36	10/03/22 21:44	1
d9-N-EtFOSE-M	60		10 - 150	09/30/22 13:36	10/03/22 21:44	1
M2-4:2 FTS	111		25 - 150	09/30/22 13:36	10/03/22 21:44	1
M2-6:2 FTS	124		25 - 150	09/30/22 13:36	10/03/22 21:44	1
M2-8:2 FTS	102		25 - 150	09/30/22 13:36	10/03/22 21:44	1
13C3 HFPO-DA	86		25 - 150	09/30/22 13:36	10/03/22 21:44	1
13C2 10:2 FTS	89		25 - 150	09/30/22 13:36	10/03/22 21:44	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: EB-PERISTALTIC

Date Collected: 09/21/22 09:50
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-5

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		09/30/22 13:36	10/10/22 04:27	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		09/30/22 13:36	10/10/22 04:27	1
NEtFOSA	<0.79		1.8	0.79	ng/L		09/30/22 13:36	10/10/22 04:27	1
NMeFOSA	<0.39		1.8	0.39	ng/L		09/30/22 13:36	10/10/22 04:27	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		09/30/22 13:36	10/10/22 04:27	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		09/30/22 13:36	10/10/22 04:27	1
NMeFOSE	<1.3		3.6	1.3	ng/L		09/30/22 13:36	10/10/22 04:27	1
NEtFOSE	<0.77		1.8	0.77	ng/L		09/30/22 13:36	10/10/22 04:27	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/10/22 04:27	1
6:2 FTS	<2.3		4.5	2.3	ng/L		09/30/22 13:36	10/10/22 04:27	1
8:2 FTS	<0.42		1.8	0.42	ng/L		09/30/22 13:36	10/10/22 04:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		09/30/22 13:36	10/10/22 04:27	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		09/30/22 13:36	10/10/22 04:27	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/10/22 04:27	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/10/22 04:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*106*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C5 PFPeA	*109*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C2 PFHxA	*125*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C4 PFHpA	*113*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C4 PFOA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C5 PFNA	*109*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C2 PFDA	*110*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C2 PFUnA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C2 PFDoA	*94*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C2 PFTeDA	*98*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
13C3 PFBS	*110*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*
18O2 PFHxS	*118*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:27*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: EB-PERISTALTIC
Date Collected: 09/21/22 09:50
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-5
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	111		25 - 150	09/30/22 13:36	10/10/22 04:27	1
13C8 FOSA	109		10 - 150	09/30/22 13:36	10/10/22 04:27	1
d3-NMeFOSAA	121		25 - 150	09/30/22 13:36	10/10/22 04:27	1
d5-NEtFOSAA	119		25 - 150	09/30/22 13:36	10/10/22 04:27	1
d-N-MeFOSA-M	90		10 - 150	09/30/22 13:36	10/10/22 04:27	1
d-N-EtFOSA-M	87		10 - 150	09/30/22 13:36	10/10/22 04:27	1
d7-N-MeFOSE-M	97		10 - 150	09/30/22 13:36	10/10/22 04:27	1
d9-N-EtFOSE-M	86		10 - 150	09/30/22 13:36	10/10/22 04:27	1
M2-4:2 FTS	114		25 - 150	09/30/22 13:36	10/10/22 04:27	1
M2-6:2 FTS	95		25 - 150	09/30/22 13:36	10/10/22 04:27	1
M2-8:2 FTS	81		25 - 150	09/30/22 13:36	10/10/22 04:27	1
13C3 HFPO-DA	111		25 - 150	09/30/22 13:36	10/10/22 04:27	1
13C2 10:2 FTS	68		25 - 150	09/30/22 13:36	10/10/22 04:27	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-45-22-S1

Date Collected: 09/21/22 09:55
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-6

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**120**		4.6	2.2	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluoropentanoic acid (PFPeA)	**170**		1.8	0.45	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorohexanoic acid (PFHxA)	**340**		1.8	0.53	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluoroheptanoic acid (PFHpA)	**110**		1.8	0.23	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorooctanoic acid (PFOA)	**42**		1.8	0.78	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.8	0.18	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluoropentanesulfonic acid (PFPeS)	**1.3**	**J**	1.8	0.28	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorohexanesulfonic acid (PFHxS)	**11**		1.8	0.53	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorooctanesulfonic acid (PFOS)	**1.2**	**J**	1.8	0.50	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		09/30/22 13:36	10/03/22 22:04	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		09/30/22 13:36	10/03/22 22:04	1
NEtFOSA	<0.80		1.8	0.80	ng/L		09/30/22 13:36	10/03/22 22:04	1
NMeFOSA	<0.40		1.8	0.40	ng/L		09/30/22 13:36	10/03/22 22:04	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/03/22 22:04	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/03/22 22:04	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/03/22 22:04	1
NEtFOSE	<0.78		1.8	0.78	ng/L		09/30/22 13:36	10/03/22 22:04	1
4:2 FTS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 22:04	1
6:2 FTS	**3.1**	**J**	4.6	2.3	ng/L		09/30/22 13:36	10/03/22 22:04	1
8:2 FTS	<0.42		1.8	0.42	ng/L		09/30/22 13:36	10/03/22 22:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		09/30/22 13:36	10/03/22 22:04	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/03/22 22:04	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		09/30/22 13:36	10/03/22 22:04	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		09/30/22 13:36	10/03/22 22:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*28*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C2 PFHxA	*91*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C4 PFHpA	*97*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C4 PFOA	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C5 PFNA	*94*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C2 PFDA	*92*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C2 PFUnA	*82*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C2 PFDoA	*77*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*
13C2 PFTeDA	*78*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:04*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-45-22-S1
Date Collected: 09/21/22 09:55
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-6
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	85		25 - 150	09/30/22 13:36	10/03/22 22:04	1
18O2 PFHxS	97		25 - 150	09/30/22 13:36	10/03/22 22:04	1
13C4 PFOS	91		25 - 150	09/30/22 13:36	10/03/22 22:04	1
13C8 FOSA	89		10 - 150	09/30/22 13:36	10/03/22 22:04	1
d3-NMeFOSAA	88		25 - 150	09/30/22 13:36	10/03/22 22:04	1
d5-NEtFOSAA	84		25 - 150	09/30/22 13:36	10/03/22 22:04	1
d-N-MeFOSA-M	91		10 - 150	09/30/22 13:36	10/03/22 22:04	1
d-N-EtFOSA-M	83		10 - 150	09/30/22 13:36	10/03/22 22:04	1
d7-N-MeFOSE-M	72		10 - 150	09/30/22 13:36	10/03/22 22:04	1
d9-N-EtFOSE-M	70		10 - 150	09/30/22 13:36	10/03/22 22:04	1
M2-4:2 FTS	106		25 - 150	09/30/22 13:36	10/03/22 22:04	1
M2-6:2 FTS	112		25 - 150	09/30/22 13:36	10/03/22 22:04	1
M2-8:2 FTS	101		25 - 150	09/30/22 13:36	10/03/22 22:04	1
13C3 HFPO-DA	88		25 - 150	09/30/22 13:36	10/03/22 22:04	1
13C2 10:2 FTS	94		25 - 150	09/30/22 13:36	10/03/22 22:04	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-109-22-S1
Date Collected: 09/21/22 10:05
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-7
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**100**		4.7	2.2	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluoropentanoic acid (PFPeA)	**280**		1.9	0.46	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorohexanoic acid (PFHxA)	**240**		1.9	0.54	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluoroheptanoic acid (PFHpA)	**160**		1.9	0.23	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorooctanoic acid (PFOA)	**36**		1.9	0.80	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorohexanesulfonic acid (PFHxS)	**2.3**		1.9	0.53	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		09/30/22 13:36	10/03/22 22:14	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		09/30/22 13:36	10/03/22 22:14	1
NEtFOSA	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/03/22 22:14	1
NMeFOSA	<0.40		1.9	0.40	ng/L		09/30/22 13:36	10/03/22 22:14	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		09/30/22 13:36	10/03/22 22:14	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		09/30/22 13:36	10/03/22 22:14	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/03/22 22:14	1
NEtFOSE	<0.80		1.9	0.80	ng/L		09/30/22 13:36	10/03/22 22:14	1
4:2 FTS	**0.92**	**J I**	1.9	0.22	ng/L		09/30/22 13:36	10/03/22 22:14	1
8:2 FTS	<0.43		1.9	0.43	ng/L		09/30/22 13:36	10/03/22 22:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		09/30/22 13:36	10/03/22 22:14	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/03/22 22:14	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/03/22 22:14	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/03/22 22:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*54*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C5 PFPeA	*70*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C2 PFHxA	*86*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C4 PFHpA	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C4 PFOA	*97*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C5 PFNA	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C2 PFDA	*92*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C2 PFUnA	*80*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C2 PFDoA	*67*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C2 PFTeDA	*62*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
13C3 PFBS	*82*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*
18O2 PFHxS	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 22:14*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-109-22-S1
Date Collected: 09/21/22 10:05
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-7
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	90		25 - 150	09/30/22 13:36	10/03/22 22:14	1
13C8 FOSA	82		10 - 150	09/30/22 13:36	10/03/22 22:14	1
d3-NMeFOSAA	86		25 - 150	09/30/22 13:36	10/03/22 22:14	1
d5-NEtFOSAA	77		25 - 150	09/30/22 13:36	10/03/22 22:14	1
d-N-MeFOSA-M	59		10 - 150	09/30/22 13:36	10/03/22 22:14	1
d-N-EtFOSA-M	53		10 - 150	09/30/22 13:36	10/03/22 22:14	1
d7-N-MeFOSE-M	58		10 - 150	09/30/22 13:36	10/03/22 22:14	1
d9-N-EtFOSE-M	57		10 - 150	09/30/22 13:36	10/03/22 22:14	1
M2-4:2 FTS	137		25 - 150	09/30/22 13:36	10/03/22 22:14	1
M2-8:2 FTS	103		25 - 150	09/30/22 13:36	10/03/22 22:14	1
13C3 HFPO-DA	84		25 - 150	09/30/22 13:36	10/03/22 22:14	1
13C2 10:2 FTS	70		25 - 150	09/30/22 13:36	10/03/22 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	340		23	12	ng/L		09/30/22 13:36	10/10/22 05:17	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	79		25 - 150	09/30/22 13:36	10/10/22 05:17	5

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-47-22-S1

Date Collected: 09/21/22 10:14
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-8

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**43**		4.7	2.2	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluoropentanoic acid (PFPeA)	**7.2**		1.9	0.46	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorohexanoic acid (PFHxA)	**31**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluoroheptanoic acid (PFHpA)	**16**		1.9	0.23	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorooctanoic acid (PFOA)	**68**		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorononanoic acid (PFNA)	**0.54**	**J**	1.9	0.25	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorobutanesulfonic acid (PFBS)	**5.5**		1.9	0.19	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluoropentanesulfonic acid (PFPeS)	**7.5**	**I**	1.9	0.28	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorohexanesulfonic acid (PFHxS)	**37**		1.9	0.53	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorooctanesulfonic acid (PFOS)	**17**		1.9	0.50	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		09/30/22 13:36	10/10/22 04:37	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		09/30/22 13:36	10/10/22 04:37	1
NEtFOSA	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 04:37	1
NMeFOSA	<0.40		1.9	0.40	ng/L		09/30/22 13:36	10/10/22 04:37	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		09/30/22 13:36	10/10/22 04:37	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		09/30/22 13:36	10/10/22 04:37	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/10/22 04:37	1
NEtFOSE	<0.79		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 04:37	1
4:2 FTS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 04:37	1
6:2 FTS	<2.3		4.7	2.3	ng/L		09/30/22 13:36	10/10/22 04:37	1
8:2 FTS	<0.43		1.9	0.43	ng/L		09/30/22 13:36	10/10/22 04:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		09/30/22 13:36	10/10/22 04:37	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/10/22 04:37	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 04:37	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*20*	**5-*	*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C5 PFPeA	*46*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C2 PFHxA	*66*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C4 PFHpA	*86*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C4 PFOA	*98*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C5 PFNA	*108*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C2 PFDA	*102*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C2 PFUnA	*99*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C2 PFDoA	*88*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:37*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-47-22-S1
Date Collected: 09/21/22 10:14
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-8
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	62		25 - 150	09/30/22 13:36	10/10/22 04:37	1
18O2 PFHxS	91		25 - 150	09/30/22 13:36	10/10/22 04:37	1
13C4 PFOS	103		25 - 150	09/30/22 13:36	10/10/22 04:37	1
13C8 FOSA	101		10 - 150	09/30/22 13:36	10/10/22 04:37	1
d3-NMeFOSAA	104		25 - 150	09/30/22 13:36	10/10/22 04:37	1
d5-NEtFOSAA	108		25 - 150	09/30/22 13:36	10/10/22 04:37	1
d-N-MeFOSA-M	90		10 - 150	09/30/22 13:36	10/10/22 04:37	1
d-N-EtFOSA-M	80		10 - 150	09/30/22 13:36	10/10/22 04:37	1
d7-N-MeFOSE-M	70		10 - 150	09/30/22 13:36	10/10/22 04:37	1
d9-N-EtFOSE-M	65		10 - 150	09/30/22 13:36	10/10/22 04:37	1
M2-4:2 FTS	61		25 - 150	09/30/22 13:36	10/10/22 04:37	1
M2-6:2 FTS	132		25 - 150	09/30/22 13:36	10/10/22 04:37	1
M2-8:2 FTS	143		25 - 150	09/30/22 13:36	10/10/22 04:37	1
13C3 HFPO-DA	73		25 - 150	09/30/22 13:36	10/10/22 04:37	1
13C2 10:2 FTS	86		25 - 150	09/30/22 13:36	10/10/22 04:37	1

Client Sample ID: TW-43-22-S1
Date Collected: 09/21/22 10:28
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-9
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<4.6		19	4.6	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorohexanoic acid (PFHxA)	**21**		19	5.4	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluoroheptanoic acid (PFHpA)	**6.7**	**J**	19	2.3	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorooctanoic acid (PFOA)	**43**		19	7.9	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorononanoic acid (PFNA)	<2.5		19	2.5	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorodecanoic acid (PFDA)	<2.9		19	2.9	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluoroundecanoic acid (PFUnA)	<10		19	10	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorododecanoic acid (PFDoA)	<5.1		19	5.1	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorotridecanoic acid (PFTrDA)	<12		19	12	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorotetradecanoic acid (PFTeA)	<6.8		19	6.8	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorobutanesulfonic acid (PFBS)	**17**	**J**	19	1.9	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluoropentanesulfonic acid (PFPeS)	**14**	**J**	19	2.8	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorohexanesulfonic acid (PFHxS)	**100**		19	5.3	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		19	1.8	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorooctanesulfonic acid (PFOS)	**29**		19	5.0	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorononanesulfonic acid (PFNS)	<3.5		19	3.5	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorodecanesulfonic acid (PFDS)	<3.0		19	3.0	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorododecanesulfonic acid (PFDoS)	<9.1		19	9.1	ng/L		09/30/22 13:36	10/10/22 05:48	10
Perfluorooctanesulfonamide (FOSA)	<9.2		19	9.2	ng/L		09/30/22 13:36	10/10/22 05:48	10
NEtFOSA	<8.1		19	8.1	ng/L		09/30/22 13:36	10/10/22 05:48	10
NMeFOSA	<4.0		19	4.0	ng/L		09/30/22 13:36	10/10/22 05:48	10
NMeFOSAA	<11		47	11	ng/L		09/30/22 13:36	10/10/22 05:48	10
NEtFOSAA	<12		47	12	ng/L		09/30/22 13:36	10/10/22 05:48	10
NMeFOSE	<13		37	13	ng/L		09/30/22 13:36	10/10/22 05:48	10
NEtFOSE	<7.9		19	7.9	ng/L		09/30/22 13:36	10/10/22 05:48	10
4:2 FTS	<2.2		19	2.2	ng/L		09/30/22 13:36	10/10/22 05:48	10
6:2 FTS	<23		47	23	ng/L		09/30/22 13:36	10/10/22 05:48	10
8:2 FTS	<4.3		19	4.3	ng/L		09/30/22 13:36	10/10/22 05:48	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<3.7		19	3.7	ng/L		09/30/22 13:36	10/10/22 05:48	10
HFPO-DA (GenX)	<14		37	14	ng/L		09/30/22 13:36	10/10/22 05:48	10
9Cl-PF3ONS	<2.2		19	2.2	ng/L		09/30/22 13:36	10/10/22 05:48	10
11Cl-PF3OUdS	<3.0		19	3.0	ng/L		09/30/22 13:36	10/10/22 05:48	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*14*	*5-	*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C2 PFHxA	*107*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C4 PFHpA	*99*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C4 PFOA	*102*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C5 PFNA	*107*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C2 PFDA	*105*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C2 PFUnA	*101*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C2 PFDoA	*91*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C2 PFTeDA	*70*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
13C3 PFBS	*90*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*
18O2 PFHxS	*101*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:48*	*10*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-43-22-S1
Date Collected: 09/21/22 10:28
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-9
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	106		25 - 150	09/30/22 13:36	10/10/22 05:48	10
13C8 FOSA	106		10 - 150	09/30/22 13:36	10/10/22 05:48	10
d3-NMeFOSAA	111		25 - 150	09/30/22 13:36	10/10/22 05:48	10
d5-NEtFOSAA	113		25 - 150	09/30/22 13:36	10/10/22 05:48	10
d-N-MeFOSA-M	108		10 - 150	09/30/22 13:36	10/10/22 05:48	10
d-N-EtFOSA-M	104		10 - 150	09/30/22 13:36	10/10/22 05:48	10
d7-N-MeFOSE-M	79		10 - 150	09/30/22 13:36	10/10/22 05:48	10
d9-N-EtFOSE-M	65		10 - 150	09/30/22 13:36	10/10/22 05:48	10
M2-4:2 FTS	115		25 - 150	09/30/22 13:36	10/10/22 05:48	10
M2-6:2 FTS	121		25 - 150	09/30/22 13:36	10/10/22 05:48	10
M2-8:2 FTS	90		25 - 150	09/30/22 13:36	10/10/22 05:48	10
13C3 HFPO-DA	96		25 - 150	09/30/22 13:36	10/10/22 05:48	10
13C2 10:2 FTS	71		25 - 150	09/30/22 13:36	10/10/22 05:48	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<240		500	240	ng/L		10/17/22 04:37	10/18/22 18:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	10/17/22 04:37	10/18/22 18:36	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-36-22-S1
Date Collected: 09/21/22 10:30
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-10
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**14**	**J**	25	12	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluoropentanoic acid (PFPeA)	**7.9**	**J**	10	2.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorohexanoic acid (PFHxA)	**9.4**	**J**	10	2.9	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluoroheptanoic acid (PFHpA)	**13**		10	1.3	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorooctanoic acid (PFOA)	**120**		10	4.3	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorononanoic acid (PFNA)	<1.4		10	1.4	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorodecanoic acid (PFDA)	<1.6		10	1.6	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluoroundecanoic acid (PFUnA)	<5.5		10	5.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorododecanoic acid (PFDoA)	<2.8		10	2.8	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorotridecanoic acid (PFTrDA)	<6.5		10	6.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorotetradecanoic acid (PFTeA)	<3.7		10	3.7	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorobutanesulfonic acid (PFBS)	<1.0		10	1.0	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluoropentanesulfonic acid (PFPeS)	**1.5**	**J**	10	1.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorohexanesulfonic acid (PFHxS)	**18**		10	2.9	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.95		10	0.95	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorooctanesulfonic acid (PFOS)	**12**		10	2.7	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorononanesulfonic acid (PFNS)	<1.9		10	1.9	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		10	1.6	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorododecanesulfonic acid (PFDoS)	<4.9		10	4.9	ng/L		09/30/22 13:36	10/10/22 04:47	1
Perfluorooctanesulfonamide (FOSA)	<4.9		10	4.9	ng/L		09/30/22 13:36	10/10/22 04:47	1
NEtFOSA	<4.4		10	4.4	ng/L		09/30/22 13:36	10/10/22 04:47	1
NMeFOSA	<2.2		10	2.2	ng/L		09/30/22 13:36	10/10/22 04:47	1
NMeFOSAA	<6.0		25	6.0	ng/L		09/30/22 13:36	10/10/22 04:47	1
NEtFOSAA	<6.5		25	6.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
NMeFOSE	<7.0		20	7.0	ng/L		09/30/22 13:36	10/10/22 04:47	1
NEtFOSE	<4.3		10	4.3	ng/L		09/30/22 13:36	10/10/22 04:47	1
4:2 FTS	<1.2		10	1.2	ng/L		09/30/22 13:36	10/10/22 04:47	1
6:2 FTS	<13		25	13	ng/L		09/30/22 13:36	10/10/22 04:47	1
8:2 FTS	<2.3		10	2.3	ng/L		09/30/22 13:36	10/10/22 04:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		10	2.0	ng/L		09/30/22 13:36	10/10/22 04:47	1
HFPO-DA (GenX)	<7.5		20	7.5	ng/L		09/30/22 13:36	10/10/22 04:47	1
9Cl-PF3ONS	<1.2		10	1.2	ng/L		09/30/22 13:36	10/10/22 04:47	1
11Cl-PF3OUdS	<1.6		10	1.6	ng/L		09/30/22 13:36	10/10/22 04:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C5 PFPeA	*93*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C2 PFHxA	*129*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C4 PFHpA	*115*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C4 PFOA	*103*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C5 PFNA	*116*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C2 PFDA	*118*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C2 PFUnA	*115*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C2 PFDoA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*
13C3 PFBS	*100*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:47*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-36-22-S1
Date Collected: 09/21/22 10:30
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-10
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	114		25 - 150	09/30/22 13:36	10/10/22 04:47	1
13C4 PFOS	114		25 - 150	09/30/22 13:36	10/10/22 04:47	1
13C8 FOSA	117		10 - 150	09/30/22 13:36	10/10/22 04:47	1
d3-NMeFOSAA	121		25 - 150	09/30/22 13:36	10/10/22 04:47	1
d5-NEtFOSAA	135		25 - 150	09/30/22 13:36	10/10/22 04:47	1
d-N-MeFOSA-M	97		10 - 150	09/30/22 13:36	10/10/22 04:47	1
d-N-EtFOSA-M	75		10 - 150	09/30/22 13:36	10/10/22 04:47	1
d7-N-MeFOSE-M	67		10 - 150	09/30/22 13:36	10/10/22 04:47	1
d9-N-EtFOSE-M	43		10 - 150	09/30/22 13:36	10/10/22 04:47	1
M2-4:2 FTS	166	*5+	25 - 150	09/30/22 13:36	10/10/22 04:47	1
M2-6:2 FTS	122		25 - 150	09/30/22 13:36	10/10/22 04:47	1
M2-8:2 FTS	153	*5+	25 - 150	09/30/22 13:36	10/10/22 04:47	1
13C3 HFPO-DA	110		25 - 150	09/30/22 13:36	10/10/22 04:47	1
13C2 10:2 FTS	148		25 - 150	09/30/22 13:36	10/10/22 04:47	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-40-22-S1

Date Collected: 09/21/22 10:42
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-11

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorohexanoic acid (PFHxA)	**5.5**	**I**	1.9	0.55	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluoroheptanoic acid (PFHpA)	**5.1**		1.9	0.24	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorooctanoic acid (PFOA)	**24**		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorononanoic acid (PFNA)	**0.72**	**J**	1.9	0.26	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluoropentanesulfonic acid (PFPeS)	**8.8**	**I**	1.9	0.28	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorohexanesulfonic acid (PFHxS)	**110**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorooctanesulfonic acid (PFOS)	**7.0**		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		09/30/22 13:36	10/10/22 06:59	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		09/30/22 13:36	10/10/22 06:59	1
NEtFOSA	<0.83		1.9	0.83	ng/L		09/30/22 13:36	10/10/22 06:59	1
NMeFOSA	<0.41		1.9	0.41	ng/L		09/30/22 13:36	10/10/22 06:59	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		09/30/22 13:36	10/10/22 06:59	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		09/30/22 13:36	10/10/22 06:59	1
NMeFOSE	<1.3		3.8	1.3	ng/L		09/30/22 13:36	10/10/22 06:59	1
NEtFOSE	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 06:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		09/30/22 13:36	10/10/22 06:59	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		09/30/22 13:36	10/10/22 06:59	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		09/30/22 13:36	10/10/22 06:59	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 06:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFPeA	*34*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C2 PFHxA	*80*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C4 PFHpA	*91*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C4 PFOA	*102*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C5 PFNA	*128*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C2 PFDA	*141*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C2 PFUnA	*134*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C2 PFDoA	*121*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C2 PFTeDA	*121*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C3 PFBS	*90*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
18O2 PFHxS	*137*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C4 PFOS	*149*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
13C8 FOSA	*137*		*10 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
d3-NMeFOSAA	*112*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*
d5-NEtFOSAA	*127*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:59*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-40-22-S1
Date Collected: 09/21/22 10:42
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-11
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d-N-MeFOSA-M	117		10 - 150	09/30/22 13:36	10/10/22 06:59	1
d-N-EtFOSA-M	109		10 - 150	09/30/22 13:36	10/10/22 06:59	1
d7-N-MeFOSE-M	101		10 - 150	09/30/22 13:36	10/10/22 06:59	1
d9-N-EtFOSE-M	93		10 - 150	09/30/22 13:36	10/10/22 06:59	1
13C3 HFPO-DA	84		25 - 150	09/30/22 13:36	10/10/22 06:59	1
13C2 10:2 FTS	132		25 - 150	09/30/22 13:36	10/10/22 06:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<23		47	23	ng/L		09/30/22 13:36	10/10/22 06:18	10
4:2 FTS	<2.3		19	2.3	ng/L		09/30/22 13:36	10/10/22 06:18	10
6:2 FTS	<24		47	24	ng/L		09/30/22 13:36	10/10/22 06:18	10
8:2 FTS	<4.4		19	4.4	ng/L		09/30/22 13:36	10/10/22 06:18	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	10	*5-	25 - 150	09/30/22 13:36	10/10/22 06:18	10
M2-4:2 FTS	197	*5+	25 - 150	09/30/22 13:36	10/10/22 06:18	10
M2-6:2 FTS	138		25 - 150	09/30/22 13:36	10/10/22 06:18	10
M2-8:2 FTS	93		25 - 150	09/30/22 13:36	10/10/22 06:18	10

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-42-22-S1
Date Collected: 09/21/22 11:00
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-12
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorohexanoic acid (PFHxA)	**2.6**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluoroheptanoic acid (PFHpA)	**2.8**		1.9	0.23	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorooctanoic acid (PFOA)	**10**		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorononanoic acid (PFNA)	**0.95**	**J**	1.9	0.25	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorobutanesulfonic acid (PFBS)	**1.5**	**J**	1.9	0.19	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluoropentanesulfonic acid (PFPeS)	**0.46**	**J**	1.9	0.28	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.9	0.53	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorooctanesulfonic acid (PFOS)	**2.0**		1.9	0.50	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		09/30/22 13:36	10/10/22 06:28	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		09/30/22 13:36	10/10/22 06:28	1
NEtFOSA	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 06:28	1
NMeFOSA	<0.40		1.9	0.40	ng/L		09/30/22 13:36	10/10/22 06:28	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/10/22 06:28	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/10/22 06:28	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/10/22 06:28	1
NEtFOSE	<0.79		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 06:28	1
4:2 FTS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 06:28	1
6:2 FTS	<2.3		4.6	2.3	ng/L		09/30/22 13:36	10/10/22 06:28	1
8:2 FTS	<0.43		1.9	0.43	ng/L		09/30/22 13:36	10/10/22 06:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		09/30/22 13:36	10/10/22 06:28	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/10/22 06:28	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 06:28	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 06:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C5 PFPeA	*72*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C2 PFHxA	*113*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C4 PFHpA	*96*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C4 PFOA	*96*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C5 PFNA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C2 PFDA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C2 PFUnA	*104*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C2 PFDoA	*85*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*
13C2 PFTeDA	*81*		*25 - 150*	*09/30/22 13:36*	*10/10/22 06:28*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-42-22-S1
Date Collected: 09/21/22 11:00
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-12
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	87		25 - 150	09/30/22 13:36	10/10/22 06:28	1
18O2 PFHxS	104		25 - 150	09/30/22 13:36	10/10/22 06:28	1
13C4 PFOS	103		25 - 150	09/30/22 13:36	10/10/22 06:28	1
13C8 FOSA	105		10 - 150	09/30/22 13:36	10/10/22 06:28	1
d3-NMeFOSAA	102		25 - 150	09/30/22 13:36	10/10/22 06:28	1
d5-NEtFOSAA	113		25 - 150	09/30/22 13:36	10/10/22 06:28	1
d-N-MeFOSA-M	85		10 - 150	09/30/22 13:36	10/10/22 06:28	1
d-N-EtFOSA-M	80		10 - 150	09/30/22 13:36	10/10/22 06:28	1
d7-N-MeFOSE-M	81		10 - 150	09/30/22 13:36	10/10/22 06:28	1
d9-N-EtFOSE-M	73		10 - 150	09/30/22 13:36	10/10/22 06:28	1
M2-4:2 FTS	153	*5+	25 - 150	09/30/22 13:36	10/10/22 06:28	1
M2-6:2 FTS	122		25 - 150	09/30/22 13:36	10/10/22 06:28	1
M2-8:2 FTS	102		25 - 150	09/30/22 13:36	10/10/22 06:28	1
13C3 HFPO-DA	97		25 - 150	09/30/22 13:36	10/10/22 06:28	1
13C2 10:2 FTS	65		25 - 150	09/30/22 13:36	10/10/22 06:28	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-41-22-S1

Date Collected: 09/21/22 14:15
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-13

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**9.1**		4.6	2.2	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluoropentanoic acid (PFPeA)	**1.5**	**J**	1.9	0.45	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorohexanoic acid (PFHxA)	**1.9**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluoroheptanoic acid (PFHpA)	**1.8**	**J**	1.9	0.23	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorooctanoic acid (PFOA)	**5.2**		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorononanoic acid (PFNA)	**1.4**	**J**	1.9	0.25	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorodecanoic acid (PFDA)	**0.60**	**J**	1.9	0.29	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorobutanesulfonic acid (PFBS)	**1.1**	**J**	1.9	0.19	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorohexanesulfonic acid (PFHxS)	**1.1**	**J**	1.9	0.53	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.26**	**J**	1.9	0.18	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorooctanesulfonic acid (PFOS)	**14**		1.9	0.50	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		09/30/22 13:36	10/10/22 04:57	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		09/30/22 13:36	10/10/22 04:57	1
NEtFOSA	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 04:57	1
NMeFOSA	<0.40		1.9	0.40	ng/L		09/30/22 13:36	10/10/22 04:57	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/10/22 04:57	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/10/22 04:57	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/10/22 04:57	1
NEtFOSE	<0.79		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 04:57	1
4:2 FTS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 04:57	1
6:2 FTS	<2.3		4.6	2.3	ng/L		09/30/22 13:36	10/10/22 04:57	1
8:2 FTS	<0.43		1.9	0.43	ng/L		09/30/22 13:36	10/10/22 04:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		09/30/22 13:36	10/10/22 04:57	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/10/22 04:57	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 04:57	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 04:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*80*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C5 PFPeA	*86*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C2 PFHxA	*112*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C4 PFHpA	*101*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C5 PFNA	*99*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C2 PFDA	*96*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C2 PFUnA	*90*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C2 PFDoA	*80*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*09/30/22 13:36*	*10/10/22 04:57*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-41-22-S1
Date Collected: 09/21/22 14:15
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-13
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	77		25 - 150	09/30/22 13:36	10/10/22 04:57	1
18O2 PFHxS	91		25 - 150	09/30/22 13:36	10/10/22 04:57	1
13C4 PFOS	88		25 - 150	09/30/22 13:36	10/10/22 04:57	1
13C8 FOSA	95		10 - 150	09/30/22 13:36	10/10/22 04:57	1
d3-NMeFOSAA	100		25 - 150	09/30/22 13:36	10/10/22 04:57	1
d5-NEtFOSAA	100		25 - 150	09/30/22 13:36	10/10/22 04:57	1
d-N-MeFOSA-M	74		10 - 150	09/30/22 13:36	10/10/22 04:57	1
d-N-EtFOSA-M	66		10 - 150	09/30/22 13:36	10/10/22 04:57	1
d7-N-MeFOSE-M	74		10 - 150	09/30/22 13:36	10/10/22 04:57	1
d9-N-EtFOSE-M	68		10 - 150	09/30/22 13:36	10/10/22 04:57	1
M2-4:2 FTS	113		25 - 150	09/30/22 13:36	10/10/22 04:57	1
M2-6:2 FTS	153	*5+	25 - 150	09/30/22 13:36	10/10/22 04:57	1
M2-8:2 FTS	118		25 - 150	09/30/22 13:36	10/10/22 04:57	1
13C3 HFPO-DA	95		25 - 150	09/30/22 13:36	10/10/22 04:57	1
13C2 10:2 FTS	77		25 - 150	09/30/22 13:36	10/10/22 04:57	1

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: DUP-1-22-S1

Date Collected: 09/21/22 00:00
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-14

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**9.2**		4.6	2.2	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluoropentanoic acid (PFPeA)	**1.6**	**J**	1.9	0.45	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorohexanoic acid (PFHxA)	**2.1**		1.9	0.54	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluoroheptanoic acid (PFHpA)	**1.8**	**J**	1.9	0.23	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorooctanoic acid (PFOA)	**4.4**		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorononanoic acid (PFNA)	**1.2**	**J**	1.9	0.25	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorodecanoic acid (PFDA)	**0.50**	**J**	1.9	0.29	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorobutanesulfonic acid (PFBS)	**1.1**	**J**	1.9	0.19	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorohexanesulfonic acid (PFHxS)	**1.0**	**J**	1.9	0.53	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluoroheptanesulfonic acid (PFHpS)	**0.25**	**J**	1.9	0.18	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.9	0.50	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		09/30/22 13:36	10/10/22 05:07	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		09/30/22 13:36	10/10/22 05:07	1
NEtFOSA	<0.81		1.9	0.81	ng/L		09/30/22 13:36	10/10/22 05:07	1
NMeFOSA	<0.40		1.9	0.40	ng/L		09/30/22 13:36	10/10/22 05:07	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		09/30/22 13:36	10/10/22 05:07	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		09/30/22 13:36	10/10/22 05:07	1
NMeFOSE	<1.3		3.7	1.3	ng/L		09/30/22 13:36	10/10/22 05:07	1
NEtFOSE	<0.79		1.9	0.79	ng/L		09/30/22 13:36	10/10/22 05:07	1
4:2 FTS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 05:07	1
6:2 FTS	<2.3		4.6	2.3	ng/L		09/30/22 13:36	10/10/22 05:07	1
8:2 FTS	<0.43		1.9	0.43	ng/L		09/30/22 13:36	10/10/22 05:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		09/30/22 13:36	10/10/22 05:07	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		09/30/22 13:36	10/10/22 05:07	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		09/30/22 13:36	10/10/22 05:07	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		09/30/22 13:36	10/10/22 05:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C5 PFPeA	*87*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C2 PFHxA	*105*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C4 PFHpA	*98*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C4 PFOA	*95*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C5 PFNA	*97*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C2 PFDA	*90*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C2 PFUnA	*80*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C2 PFDoA	*73*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*
13C2 PFTeDA	*67*		*25 - 150*	*09/30/22 13:36*	*10/10/22 05:07*	*1*

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: DUP-1-22-S1
Date Collected: 09/21/22 00:00
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-14
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	77		25 - 150	09/30/22 13:36	10/10/22 05:07	1
18O2 PFHxS	90		25 - 150	09/30/22 13:36	10/10/22 05:07	1
13C4 PFOS	86		25 - 150	09/30/22 13:36	10/10/22 05:07	1
13C8 FOSA	88		10 - 150	09/30/22 13:36	10/10/22 05:07	1
d3-NMeFOSAA	93		25 - 150	09/30/22 13:36	10/10/22 05:07	1
d5-NEtFOSAA	97		25 - 150	09/30/22 13:36	10/10/22 05:07	1
d-N-MeFOSA-M	66		10 - 150	09/30/22 13:36	10/10/22 05:07	1
d-N-EtFOSA-M	61		10 - 150	09/30/22 13:36	10/10/22 05:07	1
d7-N-MeFOSE-M	65		10 - 150	09/30/22 13:36	10/10/22 05:07	1
d9-N-EtFOSE-M	60		10 - 150	09/30/22 13:36	10/10/22 05:07	1
M2-4:2 FTS	109		25 - 150	09/30/22 13:36	10/10/22 05:07	1
M2-6:2 FTS	139		25 - 150	09/30/22 13:36	10/10/22 05:07	1
M2-8:2 FTS	111		25 - 150	09/30/22 13:36	10/10/22 05:07	1
13C3 HFPO-DA	89		25 - 150	09/30/22 13:36	10/10/22 05:07	1
13C2 10:2 FTS	70		25 - 150	09/30/22 13:36	10/10/22 05:07	1

Definitions/Glossary

Client: Endpoint Solutions Corp
Job ID: 500-222818-1
Project/Site: RETIA USA LLC - 341-022-009

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

LCMS

Prep Batch: 621373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222818-1	W-01A-22-S1	Total/NA	Water	3535	
500-222818-2	TW-06-22-S1	Total/NA	Water	3535	
500-222818-3	TW-30-22-S1	Total/NA	Water	3535	
500-222818-4	TT-33-22-S1	Total/NA	Water	3535	
500-222818-5	EB-PERISTALTIC	Total/NA	Water	3535	
500-222818-6	TW-45-22-S1	Total/NA	Water	3535	
500-222818-7 - DL	TW-109-22-S1	Total/NA	Water	3535	
500-222818-7	TW-109-22-S1	Total/NA	Water	3535	
500-222818-8	TW-47-22-S1	Total/NA	Water	3535	
500-222818-9	TW-43-22-S1	Total/NA	Water	3535	
500-222818-10	TW-36-22-S1	Total/NA	Water	3535	
500-222818-11	TW-40-22-S1	Total/NA	Water	3535	
500-222818-11 - DL	TW-40-22-S1	Total/NA	Water	3535	
500-222818-12	W-42-22-S1	Total/NA	Water	3535	
500-222818-13	W-41-22-S1	Total/NA	Water	3535	
500-222818-14	DUP-1-22-S1	Total/NA	Water	3535	
MB 320-621373/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-621373/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-621373/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 622353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222818-1	W-01A-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-4	TT-33-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-6	TW-45-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-7	TW-109-22-S1	Total/NA	Water	537 (modified)	621373
MB 320-621373/1-A	Method Blank	Total/NA	Water	537 (modified)	621373
LCS 320-621373/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	621373
LCSD 320-621373/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	621373

Analysis Batch: 623588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222818-2	TW-06-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-3	TW-30-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-5	EB-PERISTALTIC	Total/NA	Water	537 (modified)	621373
500-222818-7 - DL	TW-109-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-8	TW-47-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-9	TW-43-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-10	TW-36-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-11 - DL	TW-40-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-11	TW-40-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-12	W-42-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-13	W-41-22-S1	Total/NA	Water	537 (modified)	621373
500-222818-14	DUP-1-22-S1	Total/NA	Water	537 (modified)	621373

Prep Batch: 625137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222818-9 - RE	TW-43-22-S1	Total/NA	Water	3535	
MB 320-625137/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-625137/2-A	Lab Control Sample	Total/NA	Water	3535	

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

LCMS

Analysis Batch: 625697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222818-9 - RE	TW-43-22-S1	Total/NA	Water	537 (modified)	625137
MB 320-625137/1-A	Method Blank	Total/NA	Water	537 (modified)	625137
LCS 320-625137/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	625137

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-621373/1-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		09/30/22 13:36	10/03/22 19:33	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		09/30/22 13:36	10/03/22 19:33	1
NEtFOSA	<0.87		2.0	0.87	ng/L		09/30/22 13:36	10/03/22 19:33	1
NMeFOSA	<0.43		2.0	0.43	ng/L		09/30/22 13:36	10/03/22 19:33	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		09/30/22 13:36	10/03/22 19:33	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		09/30/22 13:36	10/03/22 19:33	1
NMeFOSE	<1.4		4.0	1.4	ng/L		09/30/22 13:36	10/03/22 19:33	1
NEtFOSE	<0.85		2.0	0.85	ng/L		09/30/22 13:36	10/03/22 19:33	1
4:2 FTS	<0.24		2.0	0.24	ng/L		09/30/22 13:36	10/03/22 19:33	1
6:2 FTS	<2.5		5.0	2.5	ng/L		09/30/22 13:36	10/03/22 19:33	1
8:2 FTS	<0.46		2.0	0.46	ng/L		09/30/22 13:36	10/03/22 19:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		09/30/22 13:36	10/03/22 19:33	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		09/30/22 13:36	10/03/22 19:33	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		09/30/22 13:36	10/03/22 19:33	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		09/30/22 13:36	10/03/22 19:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C5 PFPeA	*100*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C2 PFHxA	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C4 PFHpA	*99*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C4 PFOA	*99*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C5 PFNA	*101*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C2 PFDA	*100*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C2 PFUnA	*98*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C2 PFDoA	*96*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*
13C2 PFTeDA	*95*		*25 - 150*	*09/30/22 13:36*	*10/03/22 19:33*	*1*

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

Lab Sample ID: MB 320-621373/1-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621373

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	94		25 - 150	09/30/22 13:36	10/03/22 19:33	1
18O2 PFHxS	97		25 - 150	09/30/22 13:36	10/03/22 19:33	1
13C4 PFOS	93		25 - 150	09/30/22 13:36	10/03/22 19:33	1
13C8 FOSA	90		10 - 150	09/30/22 13:36	10/03/22 19:33	1
d3-NMeFOSAA	101		25 - 150	09/30/22 13:36	10/03/22 19:33	1
d5-NEtFOSAA	98		25 - 150	09/30/22 13:36	10/03/22 19:33	1
d-N-MeFOSA-M	77		10 - 150	09/30/22 13:36	10/03/22 19:33	1
d-N-EtFOSA-M	78		10 - 150	09/30/22 13:36	10/03/22 19:33	1
d7-N-MeFOSE-M	94		10 - 150	09/30/22 13:36	10/03/22 19:33	1
d9-N-EtFOSE-M	87		10 - 150	09/30/22 13:36	10/03/22 19:33	1
M2-4:2 FTS	105		25 - 150	09/30/22 13:36	10/03/22 19:33	1
M2-6:2 FTS	105		25 - 150	09/30/22 13:36	10/03/22 19:33	1
M2-8:2 FTS	106		25 - 150	09/30/22 13:36	10/03/22 19:33	1
13C3 HFPO-DA	97		25 - 150	09/30/22 13:36	10/03/22 19:33	1
13C2 10:2 FTS	103		25 - 150	09/30/22 13:36	10/03/22 19:33	1

Lab Sample ID: LCS 320-621373/2-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	45.2		ng/L		113	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.0		ng/L		105	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.0		ng/L		107	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	43.7		ng/L		109	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	44.4		ng/L		111	60 - 135
Perfluorononanoic acid (PFNA)	40.0	43.0		ng/L		108	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	41.8		ng/L		104	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.9		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.8		ng/L		110	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	44.5		ng/L		111	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.6		ng/L		107	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	37.5		ng/L		106	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	40.4		ng/L		108	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.1		ng/L		102	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.9		ng/L		113	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	39.1		ng/L		105	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	40.8		ng/L		106	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.2		ng/L		102	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.4		ng/L		96	60 - 135

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

Lab Sample ID: LCS 320-621373/2-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide (FOSA)	40.0	43.6		ng/L		109	60 - 135
NEtFOSA	40.0	44.1		ng/L		110	60 - 135
NMeFOSA	40.0	42.7		ng/L		107	60 - 135
NMeFOSAA	40.0	41.0		ng/L		103	60 - 135
NEtFOSAA	40.0	45.7		ng/L		114	60 - 135
NMeFOSE	40.0	42.6		ng/L		107	60 - 135
NEtFOSE	40.0	43.3		ng/L		108	60 - 135
4:2 FTS	37.5	39.9		ng/L		106	60 - 135
6:2 FTS	38.1	40.0		ng/L		105	60 - 135
8:2 FTS	38.4	40.6		ng/L		106	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.7		ng/L		118	60 - 135
HFPO-DA (GenX)	40.0	43.6		ng/L		109	60 - 135
9Cl-PF3ONS	37.4	38.5		ng/L		103	60 - 135
11Cl-PF3OUdS	37.8	38.8		ng/L		103	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*91*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*96*		*25 - 150*
13C4 PFHpA	*99*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*101*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*90*		*25 - 150*
13C2 PFTeDA	*95*		*25 - 150*
13C3 PFBS	*95*		*25 - 150*
18O2 PFHxS	*94*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*88*		*10 - 150*
d3-NMeFOSAA	*102*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
d-N-MeFOSA-M	*76*		*10 - 150*
d-N-EtFOSA-M	*75*		*10 - 150*
d7-N-MeFOSE-M	*93*		*10 - 150*
d9-N-EtFOSE-M	*88*		*10 - 150*
M2-4:2 FTS	*101*		*25 - 150*
M2-6:2 FTS	*106*		*25 - 150*
M2-8:2 FTS	*101*		*25 - 150*
13C3 HFPO-DA	*92*		*25 - 150*
13C2 10:2 FTS	*100*		*25 - 150*

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

Lab Sample ID: LCSD 320-621373/3-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 621373

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	41.9		ng/L		105	60 - 135	8	30
Perfluoropentanoic acid (PFPeA)			40.0	41.2		ng/L		103	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)			40.0	41.3		ng/L		103	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)			40.0	41.7		ng/L		104	60 - 135	5	30
Perfluorooctanoic acid (PFOA)			40.0	42.1		ng/L		105	60 - 135	5	30
Perfluorononanoic acid (PFNA)			40.0	41.5		ng/L		104	60 - 135	4	30
Perfluorodecanoic acid (PFDA)			40.0	40.1		ng/L		100	60 - 135	4	30
Perfluoroundecanoic acid (PFUnA)			40.0	42.1		ng/L		105	60 - 135	2	30
Perfluorododecanoic acid (PFDoA)			40.0	40.1		ng/L		100	60 - 135	9	30
Perfluorotridecanoic acid (PFTrDA)			40.0	40.6		ng/L		102	60 - 135	9	30
Perfluorotetradecanoic acid (PFTeA)			40.0	40.0		ng/L		100	60 - 135	6	30
Perfluorobutanesulfonic acid (PFBS)			35.5	36.5		ng/L		103	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	39.8		ng/L		106	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	36.9		ng/L		101	60 - 135	1	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	41.2		ng/L		108	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)			37.2	39.4		ng/L		106	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)			38.5	40.0		ng/L		104	60 - 135	2	30
Perfluorodecanesulfonic acid (PFDS)			38.6	39.3		ng/L		102	60 - 135	0	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	36.6		ng/L		94	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)			40.0	42.8		ng/L		107	60 - 135	2	30
NEtFOSA			40.0	43.3		ng/L		108	60 - 135	2	30
NMeFOSA			40.0	45.3		ng/L		113	60 - 135	6	30
NMeFOSAA			40.0	38.3		ng/L		96	60 - 135	7	30
NEtFOSAA			40.0	44.1		ng/L		110	60 - 135	4	30
NMeFOSE			40.0	40.9		ng/L		102	60 - 135	4	30
NEtFOSE			40.0	41.2		ng/L		103	60 - 135	5	30
4:2 FTS			37.5	36.6		ng/L		97	60 - 135	9	30
6:2 FTS			38.1	36.8		ng/L		97	60 - 135	8	30
8:2 FTS			38.4	38.7		ng/L		101	60 - 135	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.8	44.2		ng/L		117	60 - 135	1	30
HFPO-DA (GenX)			40.0	45.0		ng/L		113	60 - 135	3	30
9Cl-PF3ONS			37.4	39.3		ng/L		105	60 - 135	2	30
11Cl-PF3OUdS			37.8	37.9		ng/L		100	60 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*104*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*

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

Lab Sample ID: LCSD 320-621373/3-A
Matrix: Water
Analysis Batch: 622353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 621373

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFHpA	*103*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*107*		*25 - 150*
13C2 PFUnA	*103*		*25 - 150*
13C2 PFDoA	*101*		*25 - 150*
13C2 PFTeDA	*101*		*25 - 150*
13C3 PFBS	*100*		*25 - 150*
18O2 PFHxS	*101*		*25 - 150*
13C4 PFOS	*98*		*25 - 150*
13C8 FOSA	*90*		*10 - 150*
d3-NMeFOSAA	*107*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
d-N-MeFOSA-M	*79*		*10 - 150*
d-N-EtFOSA-M	*81*		*10 - 150*
d7-N-MeFOSE-M	*98*		*10 - 150*
d9-N-EtFOSE-M	*95*		*10 - 150*
M2-4:2 FTS	*107*		*25 - 150*
M2-6:2 FTS	*110*		*25 - 150*
M2-8:2 FTS	*108*		*25 - 150*
13C3 HFPO-DA	*98*		*25 - 150*
13C2 10:2 FTS	*97*		*25 - 150*

Lab Sample ID: MB 320-625137/1-A
Matrix: Water
Analysis Batch: 625697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/17/22 04:37	10/18/22 15:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/17/22 04:37	10/18/22 15:33	1

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

Lab Sample ID: MB 320-625137/1-A
Matrix: Water
Analysis Batch: 625697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/17/22 04:37	10/18/22 15:33	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/17/22 04:37	10/18/22 15:33	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/17/22 04:37	10/18/22 15:33	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/17/22 04:37	10/18/22 15:33	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/17/22 04:37	10/18/22 15:33	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/17/22 04:37	10/18/22 15:33	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/17/22 04:37	10/18/22 15:33	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/17/22 04:37	10/18/22 15:33	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/17/22 04:37	10/18/22 15:33	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/17/22 04:37	10/18/22 15:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/17/22 04:37	10/18/22 15:33	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/17/22 04:37	10/18/22 15:33	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/17/22 04:37	10/18/22 15:33	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/17/22 04:37	10/18/22 15:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C5 PFPeA	*103*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 PFHxA	*100*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C4 PFHpA	*99*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C4 PFOA	*103*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C5 PFNA	*102*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 PFDA	*98*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 PFUnA	*97*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 PFDoA	*97*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 PFTeDA	*95*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C3 PFBS	*96*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
18O2 PFHxS	*101*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C4 PFOS	*100*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C8 FOSA	*89*		*10 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d3-NMeFOSAA	*108*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d5-NEtFOSAA	*106*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d-N-MeFOSA-M	*84*		*10 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d-N-EtFOSA-M	*85*		*10 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d7-N-MeFOSE-M	*87*		*10 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
d9-N-EtFOSE-M	*84*		*10 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
M2-4:2 FTS	*113*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
M2-6:2 FTS	*103*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*
13C2 10:2 FTS	*90*		*25 - 150*	*10/17/22 04:37*	*10/18/22 15:33*	*1*

Lab Sample ID: LCS 320-625137/2-A
Matrix: Water
Analysis Batch: 625697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	42.0		ng/L		105	60 - 135

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

Lab Sample ID: LCS 320-625137/2-A
Matrix: Water
Analysis Batch: 625697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	40.3		ng/L		101	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.8		ng/L		99	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	41.6		ng/L		104	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	60 - 135
Perfluorononanoic acid (PFNA)	40.0	40.5		ng/L		101	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.0		ng/L		100	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.3		ng/L		106	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	40.6		ng/L		101	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	38.7		ng/L		97	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.1		ng/L		98	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	38.3		ng/L		108	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	44.5		ng/L		118	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.7		ng/L		101	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	38.2	42.5		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.6		ng/L		104	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	36.9		ng/L		96	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.5		ng/L		95	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.2		ng/L		93	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.6		ng/L		109	60 - 135
NEtFOSA	40.0	39.7		ng/L		99	60 - 135
NMeFOSA	40.0	39.6		ng/L		99	60 - 135
NMeFOSAA	40.0	39.6		ng/L		99	60 - 135
NEtFOSAA	40.0	39.0		ng/L		98	60 - 135
NMeFOSE	40.0	38.0		ng/L		95	60 - 135
NEtFOSE	40.0	43.8		ng/L		109	60 - 135
4:2 FTS	37.5	39.2		ng/L		104	60 - 135
6:2 FTS	38.1	39.6		ng/L		104	60 - 135
8:2 FTS	38.4	36.3		ng/L		95	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	43.1		ng/L		114	60 - 135
HFPO-DA (GenX)	40.0	43.7		ng/L		109	60 - 135
9Cl-PF3ONS	37.4	33.1		ng/L		89	60 - 135
11Cl-PF3OUdS	37.8	35.2		ng/L		93	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*101*		*25 - 150*
13C4 PFHpA	*104*		*25 - 150*

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

Lab Sample ID: LCS 320-625137/2-A
Matrix: Water
Analysis Batch: 625697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625137

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFOA	101		25 - 150
13C5 PFNA	103		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	96		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	97		25 - 150
13C3 PFBS	91		25 - 150
18O2 PFHxS	104		25 - 150
13C4 PFOS	101		25 - 150
13C8 FOSA	91		10 - 150
d3-NMeFOSAA	106		25 - 150
d5-NEtFOSAA	106		25 - 150
d-N-MeFOSA-M	90		10 - 150
d-N-EtFOSA-M	86		10 - 150
d7-N-MeFOSE-M	90		10 - 150
d9-N-EtFOSE-M	83		10 - 150
M2-4:2 FTS	103		25 - 150
M2-6:2 FTS	107		25 - 150
M2-8:2 FTS	99		25 - 150
13C3 HFPO-DA	88		25 - 150
13C2 10:2 FTS	87		25 - 150

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-01A-22-S1
Lab Sample ID: 500-222818-1
Date Collected: 09/20/22 11:17
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	622353	K1S	EET SAC	10/03/22 20:43

Client Sample ID: TW-06-22-S1
Lab Sample ID: 500-222818-2
Date Collected: 09/20/22 12:45
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 06:38

Client Sample ID: TW-30-22-S1
Lab Sample ID: 500-222818-3
Date Collected: 09/21/22 09:35
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 04:17

Client Sample ID: TT-33-22-S1
Lab Sample ID: 500-222818-4
Date Collected: 09/21/22 09:47
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	622353	K1S	EET SAC	10/03/22 21:44

Client Sample ID: EB-PERISTALTIC
Lab Sample ID: 500-222818-5
Date Collected: 09/21/22 09:50
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 04:27

Client Sample ID: TW-45-22-S1
Lab Sample ID: 500-222818-6
Date Collected: 09/21/22 09:55
Matrix: Water
Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	622353	K1S	EET SAC	10/03/22 22:04

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: TW-109-22-S1
Date Collected: 09/21/22 10:05
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)	DL	5	623588	S1M	EET SAC	10/10/22 05:17
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	622353	K1S	EET SAC	10/03/22 22:14

Client Sample ID: TW-47-22-S1
Date Collected: 09/21/22 10:14
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 04:37

Client Sample ID: TW-43-22-S1
Date Collected: 09/21/22 10:28
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RE		625137	HK	EET SAC	10/17/22 04:37
Total/NA	Analysis	537 (modified)	RE	1	625697	RS1	EET SAC	10/18/22 18:36
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		10	623588	S1M	EET SAC	10/10/22 05:48

Client Sample ID: TW-36-22-S1
Date Collected: 09/21/22 10:30
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 04:47

Client Sample ID: TW-40-22-S1
Date Collected: 09/21/22 10:42
Date Received: 09/23/22 09:10

Lab Sample ID: 500-222818-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	DL		621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)	DL	10	623588	S1M	EET SAC	10/10/22 06:18
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 06:59

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Client Sample ID: W-42-22-S1

Lab Sample ID: 500-222818-12

Date Collected: 09/21/22 11:00

Matrix: Water

Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 06:28

Client Sample ID: W-41-22-S1

Lab Sample ID: 500-222818-13

Date Collected: 09/21/22 14:15

Matrix: Water

Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 04:57

Client Sample ID: DUP-1-22-S1

Lab Sample ID: 500-222818-14

Date Collected: 09/21/22 00:00

Matrix: Water

Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			621373	EH	EET SAC	09/30/22 13:36
Total/NA	Analysis	537 (modified)		1	623588	S1M	EET SAC	10/10/22 05:07

Laboratory References:

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

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Job ID: 500-222818-1
Project/Site: RETIA USA LLC - 341-022-009

Laboratory: Eurofins Sacramento

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

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

Eurofins Chicago
24 T Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No. 500-104998-44844.1 (PFAS GW)
Client Contact: Mr. Robert Cigale	Phone	E-Mail: Sandie.Fredrick@et.eurofinsus.com	State of Origin	Page: Page 1 of 2
Company: Endpoint Solutions Corp	PWSID			Job #: 500-222818

Address: 6871 S. Lover's Lane	Due Date Requested:	
City: Franklin	TAT Requested (days):	
State, Zip: WI 53132	Compliance Project: Δ Yes Δ No	
Phone: 414-427-1200 (Tel)	PO #: 341-022-009	
Email: bob@endpointcorporation.com	WO #:	
Project Name: RETIA USA LLC 341-022-009	Project #: 50018271	
Site:	SSOW#:	

Analysis Requested: Field Filtered Sample (Yes or No); Perform MS/MSD (Yes or No); PFC_IDA_WI - PFAS, Standard List (33 analytes); Total Number of containers

500-222818 COC

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered	MS/MSD	PFC_IDA_WI	Total Number of containers	Special Instructions/Note
				Preservation Code:				N A		
1	TW-01A-22-S1	9/20/22	1117	G	Water			X		
2	TW-06-22-S1	|	1245	G	Water			X		
3	TW-30-22-S1	9/21/22	935A	G	Water			X		
4	TW-33-22-S1	|	947A	G	Water			X		
5	EB-Peristaltic		950A	G	Water			X		
6	TW-45-22-S1		955A	G	Water			X		
7	TW-109-22-S1		1005A	G	Water			X		
8	TW-47-22-S1		1014A	G	Water			X		
9	TW-43-22-S1		1028	G	Water			X		
10	TW-36-22-S1		1030	G	Water			X		
11	TW-40-22-S1		1042	G	Water			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: [signature]	9/22/22 858A		Received by: [signature]	9-22-22 8:58	Eurofins
Relinquished by: [signature]	9.22.22 1700	Eurofins	Received by: [signature]	9-23-22 0810	EETSA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 205113S	Cooler Temperature(s) °C and Other Remarks: 4.8

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

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-104998-44844.2
Client Contact: Mr Robert Cigale	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin	Page: Page 2 of 2 ~~1 of 1~~
Company: Endpoint Solutions Corp	PWSID:	Analysis Requested		Job #: 500-222818
Address: 6871 S. Lover's Lane	Due Date Requested			Preservation Codes: A HCL; B NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G - Amchlor; H Ascorbic Acid; I - Ice; J DI Water; K - EDTA; L EDA; M Hexane; N None; O AsNaO2; P - Na2O4S; Q Na2SO3; R Na2S2O3; S H2SO4; T - TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other
City: Franklin	TAT Requested (days):			
State, Zip: WI 53132	Compliance Project: ☐ Yes ☒ No			
Phone: 414-4271200(Tel)	PO #: 341-022-009			
Email: bob@endpointcorporation.com	WO #:			
Project Name: RETIA USA LLC 341-022-009	Project #: 50018271			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	A	
12 MW-42-22-S1	9/21/22	1150	G	Water			X		
13 MW-41-22-S1		1415	G	Water			X		
14 DUP-1-22-S1			G	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment
Relinquished by:	Date/Time: 9/22/22 1584	Company	Received by:	Date/Time: 9.22 858	Company Eurofins
Relinquished by:	Date/Time: 9.22.22 1700	Company Eurofins	Received by:	Date/Time: 9-23-22 0910	Company Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No: 2051135	Cooler Temperature(s) °C and Other Remarks: 4.8

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-104998-44844.1 PFAS GW
Client Contact: Mr. Robert Cigale	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Endpoint Solutions Corp	PWSID:			Job #:
Address: 6871 S. Lover's Lane	Due Date Requested:			
City: Franklin	TAT Requested (days):			
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No			
Phone: 414-4271200(Tel)	PO #: 341-022-009			
Email: bob@endpointcorporation.com	WO #:			
Project Name: RETIA USA LLC - 341-022-009	Project #: 50018271			
Site:	SSOW#:			

Analysis Requested

500-222818 Chain of Custody

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	8260C_W	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-01A-22-S1	9/20/22	1147	G	Water			X			
TW-06-22-S1	1	1245	G	Water			X			
TW-30-22-S1	9/21/22	955A	G	Water			X			
TW-33-22-S1		947A	G	Water			X			
EB-PERISTALTIC		950A	G	Water			X			
TW-45-22-S1		955A	G	Water			X			
TW-109-22-S1		1005A	G	Water			X			
TW-47-22-S1		1014A	G	Water			X			
TW-43-22-S1		1028	G	Water			X			
TW-36-22-S1		1030	G	Water			X			
TW-40-22-S1		1042	G	Water			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	9/22/22 858A			9.22.22 8:58	Eurofins
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	9.22.22 1700	Eurofins		9-23-22 0710	EETSW
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 205135
Cooler Temperature(s) °C and Other Remarks: 4.8

Ver: 06/08/2021

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10/30/2022

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

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-104998-44844 2
Client Contact: Mr. Robert Cigale	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page ~~2 of 4~~ 2 of 2
Company: Endpoint Solutions Corp	PWSID:			Job #:
Address: 6871 S. Lover's Lane	Due Date Requested:			
City: Franklin	TAT Requested (days):			
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No			
Phone: 414-4271200(Tel)	PO #: 341-022-009			
Email: bob@endpointcorporation.com	WO #:			
Project Name: RETIA USA LLC - 341-022-009	Project #: 50018271			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (33 analytes)	~~537 (modified)~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
W-42-22-S1	9/21/22	1100	G	Water			X			
W-41-22-S1		1415	G	Water			X			
DUP-1-22-S1		—	G	Water			X			
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	9/22/22 958A			9.22 858	Eurofins
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	9.22.22 1700	Eurofins		9-23-22 0910	Eurofins
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 2051135	Cooler Temperature(s) °C and Other Remarks: 4.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-222818-1

Login Number: 222818
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins Sacramento
List Creation: 09/24/22 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes

500-222818 Field Sheet

Job: _____

Tracking # : 6058 8692 0680

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-06 Corr. Factor: (+ / -) NA °C

Ice ✓ Wet _____ Gel _____ Other _____

Cooler Custody Seal: Seals

Cooler ID: —

Temp Observed: 4.8 °C Corrected: 4.8 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: JB Date: 9/23/22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JB Date: 9/24/22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☑	☐
Log Release checked in TALS?	☑	☐	☑ 9/24/22

Initials: JB Date: 9/24/22

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: RETIA USA LLC - 341-022-009

Job ID: 500-222818-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-222818-1	W-01A-22-S1	85	94	98	98	98	97	94	92
500-222818-2	TW-06-22-S1	59	79	110	98	99	102	104	95
500-222818-3	TW-30-22-S1	66	95	114	103	102	101	103	93
500-222818-4	TT-33-22-S1	69	82	89	95	97	95	93	81
500-222818-5	EB-PERISTALTIC	106	109	125	113	104	109	110	104
500-222818-6	TW-45-22-S1	28	79	91	97	96	94	92	82
500-222818-7	TW-109-22-S1	54	70	86	96	97	96	92	80
500-222818-7 - DL	TW-109-22-S1								
500-222818-8	TW-47-22-S1	20 *5-	46	66	86	98	108	102	99
500-222818-9	TW-43-22-S1		14 *5-	107	99	102	107	105	101
500-222818-9 - RE	TW-43-22-S1	90							
500-222818-10	TW-36-22-S1	88	93	129	115	103	116	118	115
500-222818-11 - DL	TW-40-22-S1	10 *5-							
500-222818-11	TW-40-22-S1		34	80	91	102	128	141	134
500-222818-12	W-42-22-S1	56	72	113	96	96	104	104	104
500-222818-13	W-41-22-S1	80	86	112	101	99	99	96	90
500-222818-14	DUP-1-22-S1	78	87	105	98	95	97	90	80
LCS 320-621373/2-A	Lab Control Sample	91	98	96	99	98	99	101	100
LCS 320-625137/2-A	Lab Control Sample	99	98	101	104	101	103	99	96
LCSD 320-621373/3-A	Lab Control Sample Dup	99	104	102	103	104	102	107	103
MB 320-621373/1-A	Method Blank	94	100	96	99	99	101	100	98
MB 320-625137/1-A	Method Blank	94	103	100	99	103	102	98	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-222818-1	W-01A-22-S1	87	89	92	96	96	89	91	96
500-222818-2	TW-06-22-S1	82	69	87	103	98	99	103	104
500-222818-3	TW-30-22-S1	82	71	96	103	102	106	100	101
500-222818-4	TT-33-22-S1	71	65	91	97	93	88	87	81
500-222818-5	EB-PERISTALTIC	94	98	110	118	111	109	121	119
500-222818-6	TW-45-22-S1	77	78	85	97	91	89	88	84
500-222818-7	TW-109-22-S1	67	62	82	96	90	82	86	77
500-222818-7 - DL	TW-109-22-S1								
500-222818-8	TW-47-22-S1	88	69	62	91	103	101	104	108
500-222818-9	TW-43-22-S1	91	70	90	101	106	106	111	113
500-222818-9 - RE	TW-43-22-S1								
500-222818-10	TW-36-22-S1	104	86	100	114	114	117	121	135
500-222818-11 - DL	TW-40-22-S1								
500-222818-11	TW-40-22-S1	121	121	90	137	149	137	112	127
500-222818-12	W-42-22-S1	85	81	87	104	103	105	102	113
500-222818-13	W-41-22-S1	80	74	77	91	88	95	100	100
500-222818-14	DUP-1-22-S1	73	67	77	90	86	88	93	97
LCS 320-621373/2-A	Lab Control Sample	90	95	95	94	95	88	102	98
LCS 320-625137/2-A	Lab Control Sample	96	97	91	104	101	91	106	106
LCSD 320-621373/3-A	Lab Control Sample Dup	101	101	100	101	98	90	107	104
MB 320-621373/1-A	Method Blank	96	95	94	97	93	90	101	98
MB 320-625137/1-A	Method Blank	97	95	96	101	100	89	108	106

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 500-222818-1
Project/Site: RETIA USA LLC - 341-022-009

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-222818-1	W-01A-22-S1	73	67	80	77	106	107	95	90
500-222818-2	TW-06-22-S1	78	74	72	65	123	141	125	95
500-222818-3	TW-30-22-S1	79	71	74	67	137	123	114	96
500-222818-4	TT-33-22-S1	62	57	62	60	111	124	102	86
500-222818-5	EB-PERISTALTIC	90	87	97	86	114	95	81	111
500-222818-6	TW-45-22-S1	91	83	72	70	106	112	101	88
500-222818-7	TW-109-22-S1	59	53	58	57	137		103	84
500-222818-7 - DL	TW-109-22-S1						79		
500-222818-8	TW-47-22-S1	90	80	70	65	61	132	143	73
500-222818-9	TW-43-22-S1	108	104	79	65	115	121	90	96
500-222818-9 - RE	TW-43-22-S1								
500-222818-10	TW-36-22-S1	97	75	67	43	166 *5+	122	153 *5+	110
500-222818-11 - DL	TW-40-22-S1					197 *5+	138	93	
500-222818-11	TW-40-22-S1	117	109	101	93				84
500-222818-12	W-42-22-S1	85	80	81	73	153 *5+	122	102	97
500-222818-13	W-41-22-S1	74	66	74	68	113	153 *5+	118	95
500-222818-14	DUP-1-22-S1	66	61	65	60	109	139	111	89
LCS 320-621373/2-A	Lab Control Sample	76	75	93	88	101	106	101	92
LCS 320-625137/2-A	Lab Control Sample	90	86	90	83	103	107	99	88
LCSD 320-621373/3-A	Lab Control Sample Dup	79	81	98	95	107	110	108	98
MB 320-621373/1-A	Method Blank	77	78	94	87	105	105	106	97
MB 320-625137/1-A	Method Blank	84	85	87	84	113	103	102	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M102FTS (25-150)							
500-222818-1	W-01A-22-S1	94							
500-222818-2	TW-06-22-S1	72							
500-222818-3	TW-30-22-S1	73							
500-222818-4	TT-33-22-S1	89							
500-222818-5	EB-PERISTALTIC	68							
500-222818-6	TW-45-22-S1	94							
500-222818-7	TW-109-22-S1	70							
500-222818-7 - DL	TW-109-22-S1								
500-222818-8	TW-47-22-S1	86							
500-222818-9	TW-43-22-S1	71							
500-222818-9 - RE	TW-43-22-S1								
500-222818-10	TW-36-22-S1	148							
500-222818-11 - DL	TW-40-22-S1								
500-222818-11	TW-40-22-S1	132							
500-222818-12	W-42-22-S1	65							
500-222818-13	W-41-22-S1	77							
500-222818-14	DUP-1-22-S1	70							
LCS 320-621373/2-A	Lab Control Sample	100							
LCS 320-625137/2-A	Lab Control Sample	87							
LCSD 320-621373/3-A	Lab Control Sample Dup	97							
MB 320-621373/1-A	Method Blank	103							
MB 320-625137/1-A	Method Blank	90							

Surrogate Legend

PFBA = 13C4 PFBA

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Job ID: 500-222818-1
Project/Site: RETIA USA LLC - 341-022-009

PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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